



EMI Shielding and Grounding Materials

P-SHIELD® Shielding and Grounding Materials

Polymer Science, Inc. offers a complete EMI shielding and grounding materials product line. P-SHIELD® EMI shielding materials are used to provide an electrically conductive seal for electronic device openings and housing covers to prevent or restrict electromagnetic interference.

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P-SHIELD® Advantages

- Improved Material Yield
- Consistent High Quality
- Strong Technical Support
- Customization Options

P-SHIELD® Products by Thickness

0.01	0.013	0.015	0.016	0.017
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> PS-0449	<input type="checkbox"/> PS-1795	<input type="checkbox"/> PS-1747	<input type="checkbox"/> PS-2348	<input type="checkbox"/> PS-0448
<input type="checkbox"/> PS-2304		<input type="checkbox"/> PS-2310	<input type="checkbox"/> PS-1305	<input type="checkbox"/> PS-0451
<input type="checkbox"/> PS-2318				<input type="checkbox"/> PS-2315
<input type="checkbox"/> PS-2336				
0.02	0.025	0.028	0.03	0.032
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> PS-1749	<input type="checkbox"/> PS-0446	<input type="checkbox"/> PS-2339	<input type="checkbox"/> PS-2351	<input type="checkbox"/> PS-1371
<input type="checkbox"/> PS-1796	<input type="checkbox"/> PS-0447	<input type="checkbox"/> PS-2354	<input type="checkbox"/> PS-1337	
	<input type="checkbox"/> PS-1309		<input type="checkbox"/> PS-1354	
	<input type="checkbox"/> PS-1761		<input type="checkbox"/> PS-1747	
	<input type="checkbox"/> PS-2323		<input type="checkbox"/> PS-1760	
	<input type="checkbox"/> PS-2350		<input type="checkbox"/> PS-2312	
0.035	0.038	0.039	0.04	0.045
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> PS-2350	<input type="checkbox"/> PS-2344	<input type="checkbox"/> PS-1393	<input type="checkbox"/> PS-2347	<input type="checkbox"/> PS-1374
				<input type="checkbox"/> PS-1379
				<input type="checkbox"/> PS-1364
				<input type="checkbox"/> PS-2357
0.05	0.055	0.058	0.06	0.063
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> PS-1342	<input type="checkbox"/> PS-1326	<input type="checkbox"/> PS-1787	<input type="checkbox"/> PS-1311	<input type="checkbox"/> PS-0436
<input type="checkbox"/> PS-1771	<input type="checkbox"/> PS-1373		<input type="checkbox"/> PS-1394	
<input type="checkbox"/> PS-2320	<input type="checkbox"/> PS-1750		<input type="checkbox"/> PS-2319	
<input type="checkbox"/> PS-1774	<input type="checkbox"/> PS-1369			
<input type="checkbox"/> PS-2349	<input type="checkbox"/> PS-1762			
<input type="checkbox"/> PS-0299				
<input type="checkbox"/> PS-1316				
<input type="checkbox"/> PS-1317				
<input type="checkbox"/> PS-1332				
<input type="checkbox"/> PS-1748				
<input type="checkbox"/> PS-2306				
<input type="checkbox"/> PS-2309				
<input type="checkbox"/> PS-2324				
<input type="checkbox"/> PS-2329				

Legend

- Fabric Tapes
- Film Tapes
- Foam Tapes (see pages 9-12)
- Foil Tapes
- Conductive Adhesives
- Wave Absorbers

*All thicknesses in table are in mm.

P-SHIELD® Products by Thickness

0.065



- PS-1362
- PS-2342
- PS-2343

0.08



- PS-1361
- PS-1388
- PS-1395
- PS-2332
- PS-2340

0.085



- PS-2361

0.09



- PS-1398

0.1



- PS-0915
- PS-1389
- PS-2345
- PS-2346
- PS-1367
- PS-2313
- PS-1770
- PS-1773
- PS-2333

0.11



- PS-1328
- PS-1329
- PS-1763
- PS-1764
- PS-1769
- PS-2322
- PS-1332

0.12



- PS-2352

0.13



- PS-1307
- PS-1740
- PS-1336
- PS-1391

0.14



- PS-2328
- PS-1318
- PS-2325

0.15



- PS-2337
- PS-2356

0.18



- PS-1399

0.2



- PS-1334
- PS-1335
- PS-1790

0.24



- PS-2326

0.25



- PS-2327
- PS-1347

0.27



- PS-1399

0.3



- PS-2345
- PS-2346
- PS-1352

0.31



- PS-0289

0.35



- PS-1791

0.45



- PS-1377

Legend

Fabric Tapes

Film Tapes

Foam Tapes (see pages 9-12)

Foil Tapes

Conductive Adhesives

Wave Absorbers

*All thicknesses in table are in mm.



P-SHIELD® Fabric Tapes

P-SHIELD® fabric tapes have thin profiles and durable elements, making them perfect solutions for today's ever-shrinking electronic housing designs, including smart phones, navigation systems, tablets, etc.

Material Number & Description	Fabric Type	Z-axis Resistivity	Surface Resistivity	Thickness	Adhesive Strength (to SUS)
PS-0915 gold plated woven fabric	Woven	N/A	<0.07 Ω/sq	0.10mm	N/A
PS-1307 conductive woven fabric with conductive adhesive	Woven	N/A	<0.1 Ω/sq	0.13mm	>800g/25mm
PS-1311 conductive nonwoven fabric with conductive adhesive	Nonwoven	<0.1 Ω/in ²	<0.1 Ω/sq	0.06mm	>800g/25mm
PS-1326 conductive woven fabric with conductive adhesive	Woven	N/A	<0.1 Ω/sq	0.055mm	>1000g/25mm
PS-1328 conductive ripstop fabric with conductive adhesive	Ripstop	N/A	<0.15 Ω/sq	0.11mm	800g/25mm
PS-1329 conductive woven fabric with conductive adhesive	Woven	N/A	<0.15 Ω/sq	0.11mm	900g/25mm
PS-1342 conductive ripstop woven fabric with conductive adhesive	Ripstop	N/A	<0.1 Ω/sq	0.05mm	>1000g/25mm
PS-1361 flame retardant conductive woven fabric with conductive acrylic adhesive	Woven	<0.2 Ω/in ²	<0.2 Ω/sq	0.08mm	>1000g/25mm
PS-1371 conductive ripstop fabric	Ripstop	N/A	<0.1 Ω/sq	0.032mm	N/A
PS-1373 conductive woven fabric	Woven	N/A	<0.07 Ω/sq	0.055mm	N/A
PS-1374 conductive woven fabric with conductive adhesive	Woven	<0.08 Ω/in ²	<0.1 Ω/sq (Fabric Side) <0.1 Ω/sq (Adhesive Side)	0.045mm	1300g/25mm
PS-1379 black conductive woven fabric with conductive adhesive	Woven	<0.1 Ω/in ²	<0.1 Ω/sq (Fabric side) <0.1 Ω/sq (Adhesive side)	0.045mm	>1200g/25mm (SUS 304) >1200g/25mm (Aluminum)
PS-1388 conductive woven fabric	Woven	N/A	<0.05 Ω/sq	0.08mm	N/A
PS-1389 conductive woven fabric	Woven	N/A	<0.07 Ω/sq	0.10mm	N/A

*Based on internal test methods



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Material Number & Description	Fabric Type	Z-axis Resistivity	Surface Resistivity	Thickness	Adhesive Strength (to SUS)
PS-1393 black woven fabric coated with conductive adhesive	Woven	N/A	<0.1 Ω/sq	0.039mm	>1000g/25mm
PS-1394 conductive woven fabric coated with heat activated adhesive	Woven	N/A	<0.07 Ω/sq	0.06mm	N/A
PS-1395 conductive woven fabric coated with heat activated adhesive	Woven	N/A	<0.05 Ω/sq	0.08mm	N/A
PS-1398 conductive woven fabric with heat activated adhesive	Woven	<0.07 Ω/in ²	<0.07 Ω/sq (Fabric Side) <0.50 Ω/sq (Adhesive Side)	0.09mm	N/A
PS-1399 conductive woven fabric	Woven	N/A	<0.07 Ω/sq	0.18mm, 0.27mm	N/A
PS-1740 conductive fabric	Woven	N/A	<0.07 Ω/sq	0.13mm	N/A
PS-1750 conductive woven fabric with conductive adhesive	Woven	N/A	<0.1 Ω/sq	0.055mm	>1600g/25mm
PS-1760 conductive woven fabric coated with adhesive	Woven	<0.20 Ω/in ²	<0.20 Ω/sq	0.03mm	600g/25mm
PS-1763 conductive woven fabric with conductive adhesive	Woven	<0.1 Ω/in ²	<0.1 Ω/sq	0.11mm	900g/25mm
PS-1764 conductive woven fabric with conductive adhesive	Woven	<0.1 Ω/in ²	<0.1 Ω/sq	0.11mm	900g/25mm
PS-1769 gold conductive woven fabric with conductive adhesive	Woven	<0.1 Ω/in ²	<0.1 Ω/sq	0.11mm	900g/25mm
PS-1771 conductive woven fabric coated with conductive adhesive	Woven	<0.1 Ω/in ²	<0.1 Ω/sq	0.05mm	800g/25mm
PS-1796 conductive nonwoven fabric coated with conductive adhesive	Nonwoven	N/A	<0.2 Ω/sq	0.02mm	>800g/25mm



P-SHIELD® Fabric Tapes

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Material Number & Description	Fabric Type	Z-axis Resistivity	Surface Resistivity	Thickness	Adhesive Strength (to SUS)
PS-2319 conductive woven fabric coated with conductive adhesive	Woven	N/A	<0.05 Ω/sq	0.06mm	>1400g/25mm
PS-2320 conductive woven fabric	Woven	N/A	<0.05 Ω/sq	0.05mm	N/A
PS-2322 conductive woven fabric coated with heat activated adhesive	Woven	N/A	<0.07 Ω/sq	0.11mm	N/A
PS-2332 copper nickel plated woven fabric	Woven	N/A	<0.07 Ω/sq	0.08mm	N/A
PS-2337 conductive woven fabric coated with conductive adhesive	Woven	N/A	<0.1 Ω/sq	0.15mm	>800g/25mm
PS-2339 conductive woven fabric coated with heat activated adhesive	Woven	N/A	<0.07 Ω/sq	0.028mm	N/A
PS-2340 conductive woven fabric coated with conductive adhesive	Woven	<0.1 Ω/in ²	<0.1 Ω/sq	0.08mm	>1000g/25mm
PS-2347 conductive woven fabric coated with heat activated adhesive	Woven	N/A	<0.07 Ω/sq	0.04mm	N/A
PS-2348 conductive woven fabric	Woven	N/A	<0.07 Ω/sq	0.016mm	N/A
PS-2352 conductive woven fabric	Woven	N/A	<0.07 Ω/sq	0.12mm	N/A
PS-2354 conductive woven fabric coated with heat activated adhesive	Woven	N/A	<0.05 Ω/sq	0.028mm	N/A
PS-2356 copper nickel plated conductive woven fabric	Woven	N/A	<0.07 Ω/sq	0.15mm	N/A
PS-2357 conductive woven fabric coated with conductive acrylic adhesive	Woven	N/A	<0.07 Ω/sq	0.045mm	>1200g/25mm



P-SHIELD® Film Tapes

P-SHIELD® film tapes are thin, flexible and durable while maintaining their highly conductive properties. In addition to EMI shielding and grounding, polyimide and polyethylene films prove to perform well in extremely harsh conditions.

Material Number & Description	Film Type	Thickness	Surface Resistivity
PS-0289 static dissipative high density polyethylene film	Polyethylene	0.31mm	1000 Ω /cm ²
PS-0436 electrically insulating polyimide film coated with silicone PSA	Polyimide	0.063mm	N/A
PS-0446 black polyester film plated with silver on one side	Polyester	0.025mm	<3.2 Ω /sq
PS-0447 black polyester film plated with silver on one side	Polyester	0.025mm	<10 Ω /sq
PS-0448 polyester film plated with silver on one side with acrylic PSA	Polyester	0.017mm	<3.2 Ω /sq
PS-0449 electrically insulating polyimide film plated with silver on one side with acrylic PSA	Polyimide	0.010mm	<6 Ω /sq
PS-0451 polyester film plated with silver on one side with acrylic PSA	Polyester	0.017mm	<10 Ω /sq
PS-1305 anisotropic polyimide film	Polyimide	0.016mm	<0.03 Ω /sq
PS-1787 electrically conductive vinyl film	Paper Cast Electrically Conductive Vinyl	0.058mm	<0.95 Ω /sq



P-SHIELD® Wave Absorbers

P-SHIELD® Electromagnetic Wave Absorbers are metal filled rubber materials that are incorporated into electronic device designs to protect the delicate components from electromagnetic radiation.

Material Number & Description	Color	Film Thickness	Permeability
PS-2345 wave absorber	Gray	0.10mm, 0.3mm	70 @ 3MHz
PS-2346 wave absorber	Gray	0.10mm, 0.3mm	130 @ 3MHz



P-SHIELD® Fabric over Foam Gaskets

P-SHIELD® fabric over foam materials are conformable and compressible. They are thin, lightweight materials with excellent EMI shielding and grounding properties. With a wide range of thicknesses available for each product, P-SHIELD® foam materials can compress to properly fill gaps and provide shock absorption. EMI Shielding and grounding foam tapes and gaskets are used in electronic device housing applications to properly shield EMI noise from interfering with the performance of the device.

Material Number & Description	Foam Type	Z-axis Resistivity	Surface Resistivity	Thickness	Adhesive Strength (to SUS)
PS-1701 conductive fabric around low compression polyurethane foam core	Polyurethane	<0.1 Ω/in2	<0.1 Ω/sq	3.0mm x 0.5mm with 1.5mm adhesive	>900g/25mm
PS-1702 conductive fabric around low compression polyurethane foam core	Polyurethane	<0.1 Ω/in2	<0.1 Ω/sq	3.0mm x 0.5mm with 2.0mm adhesive	>900g/25mm
PS-1703 conductive fabric around low compression polyurethane foam core	Polyurethane	<0.1 Ω/in2	<0.1 Ω/sq	3.0mm x 1.0mm with 1.5mm adhesive	>900g/25mm
PS-1704 conductive fabric around low compression polyurethane foam core	Polyurethane	<0.1 Ω/in2	<0.1 Ω/sq	3.0mm x 1.0mm with 2.0mm adhesive	>900g/25mm
PS-1705 conductive fabric around low compression polyurethane foam core	Polyurethane	<0.1 Ω/in2	<0.1 Ω/sq	3.0mm x 1.5mm with 1.5mm adhesive	>900g/25mm
PS-1706 conductive fabric around low compression polyurethane foam core	Polyurethane	<0.1 Ω/in2	<0.1 Ω/sq	3.0mm x 1.5mm with 2.0mm adhesive	>900g/25mm
PS-1707 conductive fabric around low compression polyurethane foam core	Polyurethane	<0.1 Ω/in2	<0.1 Ω/sq	3.0mm x 2.0mm with 1.5mm adhesive	>900g/25mm
PS-1708 conductive fabric around low compression polyurethane foam core	Polyurethane	<0.1 Ω/in2	<0.1 Ω/sq	3.0mm x 2.0mm with 2.0mm adhesive	>900g/25mm
PS-1709 conductive fabric around low compression polyurethane foam core	Polyurethane	N/A	<0.1 Ω/sq	5.0mm x 0.5mm with 1.5mm adhesive	>900g/25mm
PS-1710 conductive fabric around low compression polyurethane foam core	Polyurethane	N/A	<0.1 Ω/sq	5.0mm x 0.5mm with 3.0mm adhesive	>900g/25mm
PS-1711 conductive fabric around low compression polyurethane foam core	Polyurethane	N/A	<0.1 Ω/sq	5.0mm x 1.0mm with 1.5mm adhesive	>900g/25mm



P-SHIELD® Fabric over Foam Gaskets

P-SHIELD® fabric over foam materials are conformable and compressible. They are thin, lightweight materials with excellent EMI shielding and grounding properties. With a wide range of thicknesses available for each product, P-SHIELD® foam materials can compress to properly fill gaps and provide shock absorption. EMI Shielding and grounding foam tapes and gaskets are used in electronic device housing applications to properly shield EMI noise from interfering with the performance of the device.

Material Number & Description	Foam Type	Z-axis Resistivity	Surface Resistivity	Thickness	Adhesive Strength (to SUS)
PS-1712 conductive fabric around low compression polyurethane foam core	Polyurethane	N/A	<0.1 Ω/sq	5.0mm x 1.0mm with 3.0mm adhesive	>900g/25mm
PS-1713 conductive fabric around low compression polyurethane foam core	Polyurethane	N/A	<0.1 Ω/sq	5.0mm x 1.5mm with 1.5mm adhesive	>900g/25mm
PS-1714 conductive fabric around low compression polyurethane foam core	Polyurethane	N/A	<0.1 Ω/sq	5.0mm x 1.5mm with 3.0mm adhesive	>900g/25mm
PS-1715 conductive fabric around low compression polyurethane foam core	Polyurethane	N/A	<0.1 Ω/sq	5.0mm x 2.0mm with 1.5mm adhesive	>900g/25mm
PS-1716 conductive fabric around low compression polyurethane foam core	Polyurethane	N/A	<0.1 Ω/sq	5.0mm x 2.0mm with 3.0 adhesive	>900g/25mm
PS-1725 conductive fabric over polyurethane foam	Polyurethane	N/A	<0.1 Ω/sq	10mm x 7mm x 10mm with 8mm adhesive	>900g/25mm
PS-1728 conductive fabric over polyurethane foam	Polyurethane	N/A	<0.1 Ω/sq	7mm x 1mm x 5mm with 5.5mm adhesive	>900g/25mm
PS-1729 conductive fabric over polyurethane foam	Polyurethane	N/A	N/A	6.2mm x 12.2mm x 91.5mm	N/A
PS-1732 conductive fabric over polyurethane foam	Polyurethane	N/A	<0.1 Ω/sq	5.5mm x 6mm x 5.5mm with 2mm Adhesive	N/A
PS-1733 conductive fabric over silicone foam	White Silicone	N/A	<0.1 Ω/sq	5mm x 3.5mm x 5mm	N/A
PS-1734 conductive fabric over polyurethane foam	Black Polyurethane	N/A	<0.1 Ω/sq	9mm x 6.4mm x 13mm	N/A
PS-1735 conductive fabric over polyurethane foam	Black Polyurethane	N/A	<0.1 Ω/sq	7mm x 1mm x 30mm	N/A
PS-1736 conductive fabric over soft polyurethane foam	Black Polyurethane	N/A	<0.1 Ω/sq	7mm x 1mm x 30mm	N/A



P-SHIELD® Fabric over Foam Gaskets

P-SHIELD® fabric over foam materials are conformable and compressible. They are thin, lightweight materials with excellent EMI shielding and grounding properties. With a wide range of thicknesses available for each product, P-SHIELD® foam materials can compress to properly fill gaps and provide shock absorption. EMI Shielding and grounding foam tapes and gaskets are used in electronic device housing applications to properly shield EMI noise from interfering with the performance of the device.

Material Number & Description	Foam Type	Z-axis Resistivity	Surface Resistivity	Thickness	Adhesive Strength (to SUS)
PS-1737 conductive fabric over soft polyurethane foam	Black Polyurethane	N/A	<0.1 Ω/sq	6mm x 1mm x 26mm	N/A
PS-1739 conductive fabric over polyurethane foam	Polyurethane	N/A	<0.1 Ω/sq	3mm x 3mm x 20.5mm	1400g/25mm
PS-1742 conductive fabric over polyurethane foam	Polyurethane	N/A	<0.05 Ω/sq	1mm x 1mm x 10mm	1500g/25mm
PS-1743 conductive fabric over polyurethane foam	Polyurethane	N/A	N/A	3mm x 4.5mm x 9mm	N/A
PS-1744 conductive fabric over polyurethane foam	Polyurethane	N/A	N/A	8mm x 2mm x 1000mm	N/A
PS-1746 conductive fabric over polyurethane foam	Polyurethane	N/A	<0.1 Ω/sq	3mm x 4.76mm x 213.76mm	N/A



P-SHIELD® Foam Tapes

P-SHIELD® foam tapes are conformable and compressible. They are thin, lightweight materials with excellent EMI shielding and grounding properties. With a wide range of thicknesses available for each product, P-SHIELD® foam materials can compress to properly fill gaps and provide shock absorption. EMI Shielding and grounding foam tapes and gaskets are used in electronic device housing applications to properly shield EMI noise from interfering with the performance of the device.

Material Number & Description	Foam Type	Z-axis Resistivity	Surface Resistivity	Thickness	Adhesive Strength (to SUS)
PS-1204 perforated conductive polyolefin foam multi-laminate	Polyolefin	<0.1 Ω/in ²	<0.2 Ω/sq	0.3mm - 1.25mm	400g/25mm
PS-1206 conductive polyurethane foam multi-laminate	Polyurethane	<0.5 Ω/in ²	<0.5 Ω/sq	0.3mm - 2.5mm	800g/25mm
PS-1321 conductive polyurethane foam/ copper foil multi-laminate	Polyurethane	<0.5 Ω/in ²	<0.1 Ω/sq	0.3mm - 4.0mm	1000g/25mm
PS-1323 soft conductive polyurethane foam multi-laminate	Polyurethane	<0.5 Ω/in ²	<0.5 Ω/sq	0.2mm - 4.0mm	800g/25mm
PS-1357 conductive polyurethane foam with woven fabric face	Polyurethane	<0.5 Ω/in ²	<0.5 Ω/sq	0.3m - 2.0mm	800g/25mm
PS-1759 conductive polyurethane foam multi-laminate with conductive adhesive with fabric face	Polyurethane	<0.5 Ω/in ²	<0.5 Ω/sq	0.35mm, 0.4mm, 0.55mm	200g/25mm
PS-1768 ultra soft conductive polyurethane foam multi-laminate with conductive acrylic	Polyurethane	<0.5 Ω/in ²	<0.5 Ω/sq	0.3mm - 4.0mm	800g/25mm
PS-1772 conductive polyurethane foam with conductive adhesive on each side	Polyurethane	<0.5 Ω/in ²	<0.5 Ω/sq	0.3mm, 0.5mm	800g/25mm
PS-2317 conductive foam with conductive acrylic adhesive	N/A	<0.5 Ω/in ²	<0.5 Ω/sq	1.0mm - 3.0mm	800g/25mm
PS-2335 soft conductive polyurethane foam	Polyurethane	<0.5 Ω/in ²	<0.5 Ω/sq	2.0mm	N/A
PS-2338 low repulsive force conductive polyurethane foam with conductive acrylic	Polyurethane	<0.5 Ω/in ²	<0.5 Ω/sq	0.4mm	>600g/25mm
PS-2341 copper nickel plated conductive fabric on conductive polyurethane foam with conductive acrylic	Polyurethane	<0.1 Ω/in ²	<0.1 Ω/sq	0.15mm	>600g/25mm



P-SHIELD® Foil Tapes

P-SHIELD® Foil Tapes are made of conductive aluminum and copper laminated with conductive acrylic pressure sensitive adhesive providing reliable EMI shielding and grounding solutions.

Material Number & Description	Foil Type	Z-axis Resistivity	Surface Resistivity	Thickness	Adhesive Strength (to SUS)
PS-I309 high adhesion conductive foil with conductive acrylic adhesive	Copper	<0.2 Ω/in ²	<0.2 Ω/sq	0.025mm	1000g/25mm
PS-I362 conductive foil with conductive acrylic adhesive	Copper	<0.5 Ω/in ²	<0.5 Ω/sq	0.065mm	700g/25mm
PS-I364 black conductive foil with conductive acrylic adhesive	Copper	<0.5 Ω/in ²	<0.3 Ω/sq	0.045mm	>1000g/25mm
PS-I367 conductive foil with conductive acrylic adhesive	Copper	<0.5 Ω/in ²	<0.5 Ω/sq	0.1mm	700g/25mm
PS-I369 conductive foil with conductive acrylic adhesive	Copper	<0.1 Ω/in ²	<0.3 Ω/sq (Black Coated Metal Side) <0.05 Ω/sq (Adhesive Side)	0.055mm	>1000g/25mm
PS-I761 high adhesion conductive foil with conductive acrylic adhesive	Copper	<0.2 Ω/in ²	<0.2 Ω/sq	0.025mm	1000g/25mm
PS-I762 conductive foil and fabric composite with acrylic adhesive	Copper	<0.2 Ω/in ²	<0.2 Ω/sq	0.055mm	800g/25mm
PS-I774 conductive foil with conductive acrylic adhesive	Copper	<0.02 Ω/in ²	<0.02 Ω/sq	0.05mm	>1000g/25mm
PS-2313 conductive foil with conductive acrylic adhesive	Copper	<0.5 Ω/in ²	<0.5 Ω/sq	0.1mm	700g/25mm
PS-2342 conductive foil with conductive acrylic adhesive	Electroplated Copper	<0.5 Ω/in ²	<0.5 Ω/sq	0.065mm	>1200g/25mm
PS-2343 conductive foil with conductive acrylic adhesive	Copper	<0.1 Ω/in ²	<0.1 Ω/sq	0.065mm	800g/25mm
PS-2349 conductive foil with conductive acrylic adhesive	Copper	<0.1 Ω/in ²	<0.2 Ω/sq (Face)	0.05mm	1500g/25mm



P-SHIELD® Foil Tapes

P-SHIELD® Foil Tapes are made of conductive aluminum and copper laminated with conductive acrylic pressure sensitive adhesive providing reliable EMI shielding and grounding solutions.

Material Number & Description	Foil Type	Z-axis Resistivity	Surface Resistivity	Thickness	Adhesive Strength (to SUS)
PS-2350 rolled copper foil	Copper	<0.03 Ω/in^2	<0.03 Ω/sq	0.025mm 0.035mm	N/A
PS-2351 purified electrolytic copper foil	Copper	<0.05 Ω/in^2	<0.05 Ω/sq	0.03mm	N/A
PS-2361 copper foil coated with conductive acrylic adhesive	Copper	<0.05 Ω/in^2	<0.05 Ω/sq	0.085mm	>1200g/25mm



P-SHIELD® Conductive Adhesives

P-SHIELD® electrically conductive adhesives offer effective bonding solutions for electronic device designs that require EMI shielding and grounding.

Material Number & Description	Color	Z-axis Resistivity	Surface Resistivity	Thickness	Adhesive Strength (to SUS)
PS-0299 electrically conductive acrylic transfer adhesive	Brown to Gray	<0.4 Ω/in ²	N/A	0.05mm	850g/25mm (15minutes) 2280g/25mm (72hours)
PS-1316 conductive nonwoven fabric double coated with adhesive	Gray	<0.1 Ω/in ²	<0.1 Ω/sq	0.05mm	1000 g/25mm (Side 1) 500 g/25mm (Side 2)
PS-1317 conductive woven fabric double coated with adhesive	Gray	<0.1 Ω/in ²	<0.1 Ω/sq	0.05mm	>300g/25mm (Side 1) >1000g/25mm (Side 2)
PS-1318 conductive woven fabric double coated with adhesive	Gray	<0.1 Ω/in ²	<0.1 Ω/sq	0.14mm	>800g/25mm
PS-1332 conductive nonwoven fabric double coated with adhesive	Gray	<0.1 Ω/in ²	<0.1 Ω/sq	0.05mm	>800g/25mm
PS-1332 conductive woven fabric double coated with adhesive	Gray	<0.2 Ω/in ²	<0.3 Ω/sq	0.11mm	>800g/25mm
PS-1334 conductive woven fabric double coated with adhesive	Gray	<0.1 Ω/in ²	<0.2 Ω/sq	0.20mm	>800g/25mm
PS-1335 conductive woven fabric double coated with differential adhesive	Gray	<0.1 Ω/in ²	<0.1 Ω/sq	0.20mm	1000 g/25mm (Side 1) 500 g/25mm (Side 2)
PS-1336 conductive woven fabric double coated with adhesive	Gray	<0.1 Ω/in ²	<0.1 Ω/sq	0.13mm	>900g/25mm
PS-1337 conductive woven fabric double coated with conductive acrylic PSA	Gray	<0.1 Ω/in ²	<0.3 Ω/sq	0.03mm	1200g/25mm
PS-1347 conductive woven fabric double coated with adhesive	Gray	<0.1 Ω/in ²	<0.2 Ω/sq	0.25mm	>800g/25mm
PS-1352 conductive woven fabric double coated with adhesive	Gray	<0.1 Ω/in ²	<0.1 Ω/sq	0.3mm	>600g/25mm
PS-1354 conductive woven fabric double coated with adhesive	Gray	<0.1 Ω/in ²	<0.3 Ω/sq	0.03mm	>1200g/25mm
PS-1377 conductive nonwoven fabric double coated with adhesive	Gray	<0.1 Ω/in ²	<0.1 Ω/sq	0.45mm	>800g/25mm
PS-1391 conductive woven fabric double coated with conductive adhesive	Gray	N/A	<0.05 Ω/sq	0.13mm	>1200g/25mm



P-SHIELD® Conductive Adhesives

P-SHIELD® electrically conductive adhesives offer effective bonding solutions for electronic device designs that require EMI shielding and grounding.

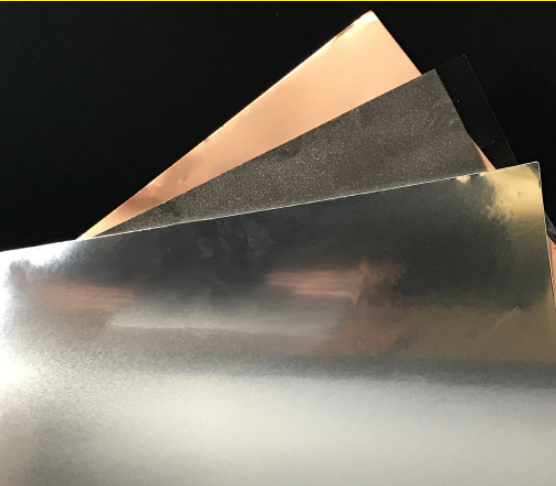
Material Number & Description	Color	Z-axis Resistivity	Surface Resistivity	Thickness	Adhesive Strength (to SUS)
PS-1747 electrically conductive heat activated adhesive	Gray	$\leq 0.05 \Omega/\text{in}^2$	N/A	0.015mm, 0.030mm	N/A
PS-1748 electrically conductive heat activated adhesive	Gray	$\leq 0.05 \Omega/\text{in}^2$	N/A	0.05mm	N/A
PS-1749 conductive nonwoven fabric double coated with adhesive	Nonwoven	$< 0.1 \Omega/\text{in}^2$	$< 0.3 \Omega/\text{sq}$	0.02mm	$> 800\text{g}/25\text{mm}$
PS-1770 conductive woven fabric double coated with adhesive	Gray	$< 0.1 \Omega/\text{in}^2$	$< 0.1 \Omega/\text{sq}$	0.10mm	$> 800\text{g}/25\text{mm}$
PS-1773 conductive woven fabric double coated with differential adhesive	Gray	$< 0.1 \Omega/\text{in}^2$	$< 0.1 \Omega/\text{sq}$	0.10mm	1000g/25mm(Side A) >300g/25mm (Side B)
PS-1790 conductive woven fabric double coated with adhesive	Gray	$< 0.2 \Omega/\text{in}^2$	$< 0.2 \Omega/\text{sq}$	0.20mm	$> 800\text{g}/25\text{mm}$
PS-1791 conductive woven fabric double coated with adhesive	Gray	$< 0.5 \Omega/\text{in}^2$	$< 0.5 \Omega/\text{sq}$	0.35mm	$> 1000\text{g}/25\text{mm}$
PS-1795 electrically conductive acrylic transfer PSA	Gray	$< 0.1 \Omega/\text{in}^2$ (using 35 μm Cu Foil)	$< 0.1 \Omega/\text{sq}$ (using 35 μm Cu Foil)	0.013mm	1400g/25mm
PS-2304 conductive foil double coated with conductive acrylic PSA	Aluminum	$< 0.1 \Omega/\text{in}^2$	$< 0.1 \Omega/\text{sq}$	0.01mm	$> 300\text{g}/25\text{mm}$
PS-2306 conductive nonwoven fabric double coated with adhesive	Gray	$< 0.1 \Omega/\text{in}^2$	$< 0.1 \Omega/\text{sq}$	0.05mm	$> 1200\text{g}/25\text{mm}$
PS-2309 conductive nonwoven fabric double coated with conductive adhesive	Gray	$< 0.1 \Omega/\text{in}^2$	$< 0.1 \Omega/\text{sq}$	0.05mm	$> 1200\text{g}/25\text{mm}$
PS-2310 electrically conductive acrylic transfer PSA	Gray	$< 0.1 \Omega/\text{in}^2$	$< 0.1 \Omega/\text{sq}$	0.015mm	$> 600\text{g}/25\text{mm}$
PS-2312 conductive nonwoven fabric double coated with adhesive	Gray	$< 0.1 \Omega/\text{in}^2$	N/A	0.03mm	$> 500\text{g}/25\text{mm}$
PS-2315 conductive foil double coated with conductive acrylic adhesive	Copper	$< 0.1 \Omega/\text{in}^2$	$< 0.1 \Omega/\text{sq}$	0.017mm	$> 300\text{g}/25\text{mm}$



P-SHIELD® Conductive Adhesives

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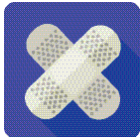
Material Number & Description	Color	Z-axis Resistivity	Surface Resistivity	Thickness	Adhesive Strength (to SUS)
PS-2318 conductive foil double coated with conductive acrylic adhesive	Copper	<0.1 Ω/in2	<0.1 Ω/sq	0.01mm	>300g/25mm
PS-2323 conductive foil double coated with conductive acrylic adhesive	Electroplated Copper	<0.2 Ω/in2	<0.2 Ω/sq	0.025mm	>500g/25mm
PS-2324 conductive woven fabric double coated with adhesive	Gray	<0.1 Ω/in2	<0.1 Ω/sq	0.05mm	>1400g/25mm
PS-2325 conductive woven fabric double coated with adhesive	Gray	<0.1 Ω/in2	<0.1 Ω/sq	0.14mm	>1200g/25mm
PS-2326 conductive foil double coated with conductive acrylic PSA	Aluminum	<0.05 Ω/in2	<0.05 Ω/sq	0.24mm	>1200g/25mm
PS-2327 conductive foil double coated with conductive acrylic PSA	Aluminum	<0.09 Ω/in2	N/A	0.25mm	>1300g/25mm
PS-2328 conductive foil double coated with conductive acrylic PSA	Aluminum	<0.07 Ω/in2	N/A	0.14mm	>1200g/25mm
PS-2329 conductive nonwoven fabric double coated with adhesive	Gray	<0.1 Ω/in2	<0.1 Ω/sq	0.05mm	>1200g/25mm
PS-2333 conductive woven fabric double coated with adhesive	Gray	<0.3 Ω/in2	<0.3 Ω/sq	0.10mm	>1500g/25mm
PS-2336 electrically conductive acrylic transfer PSA	Gray	<0.1 Ω/in2	<0.1 Ω/sq	0.010mm	>800g/25mm
PS-2344 conductive woven fabric double coated with conductive adhesive	Woven	<0.3 Ω/in2	<0.3 Ω/sq	0.038mm	>1300g/25mm



Our Innovation. *Your Edge.*

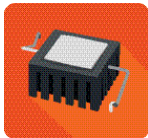
Other Product Material Offerings

Polymer Science, Inc. offers the following range of products under its brands:



P-DERM®

- Silicone Gel Adhesives
- Hydrogel Adhesives
- Acrylic Adhesives
- Hydrophilic Coatings
- Silicone and Polyurethane Elastomers



P-THERM®

- Gap Fillers
- Phase Change
- Heat Spreaders
- Electronic Control Interface Materials - Dielectric Pads
- Tapes and Adhesives



General Industrial

- Release Liners
- Films
- Transfer Adhesives
- Double and Single Coated PSA's

*Disclaimer: This list is current as of the day of publishing. Polymer Science, Inc. is continuously adding products to expand the portfolio so some products may not be listed in the brochure. In addition, due to market changes, products may be discontinued without notice. This list should only be used as a guide. Check with your local Polymer Science, Inc. representative to answer any questions or provide current solutions to your EMI shielding and grounding applications.

Company Overview

Polymer Science, Inc. has been coating materials since 1998 serving the medical device and electronics industries worldwide. Our strengths include high quality products, strong technical support and commitment to our customers. Suzhou Polymer Science was formed in 2012 to satisfy the growing need for our support and quality in the Asian market. Polymer Science, Inc. expanded once again in 2014 when our Polymer Science Europe office opened in Bremen, Germany to better serve the European market. Our diverse team of engineers and technical staff, along with our state of the art equipment, provide the capabilities necessary to develop a quality custom adhesive or coated material consistent with application requirements from anywhere in the world.

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SCIENCE, INC.

*Specific tests should be performed by the end user on materials listed in this catalog in order to determine the product suitability for the particular application.
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