

Company Overview

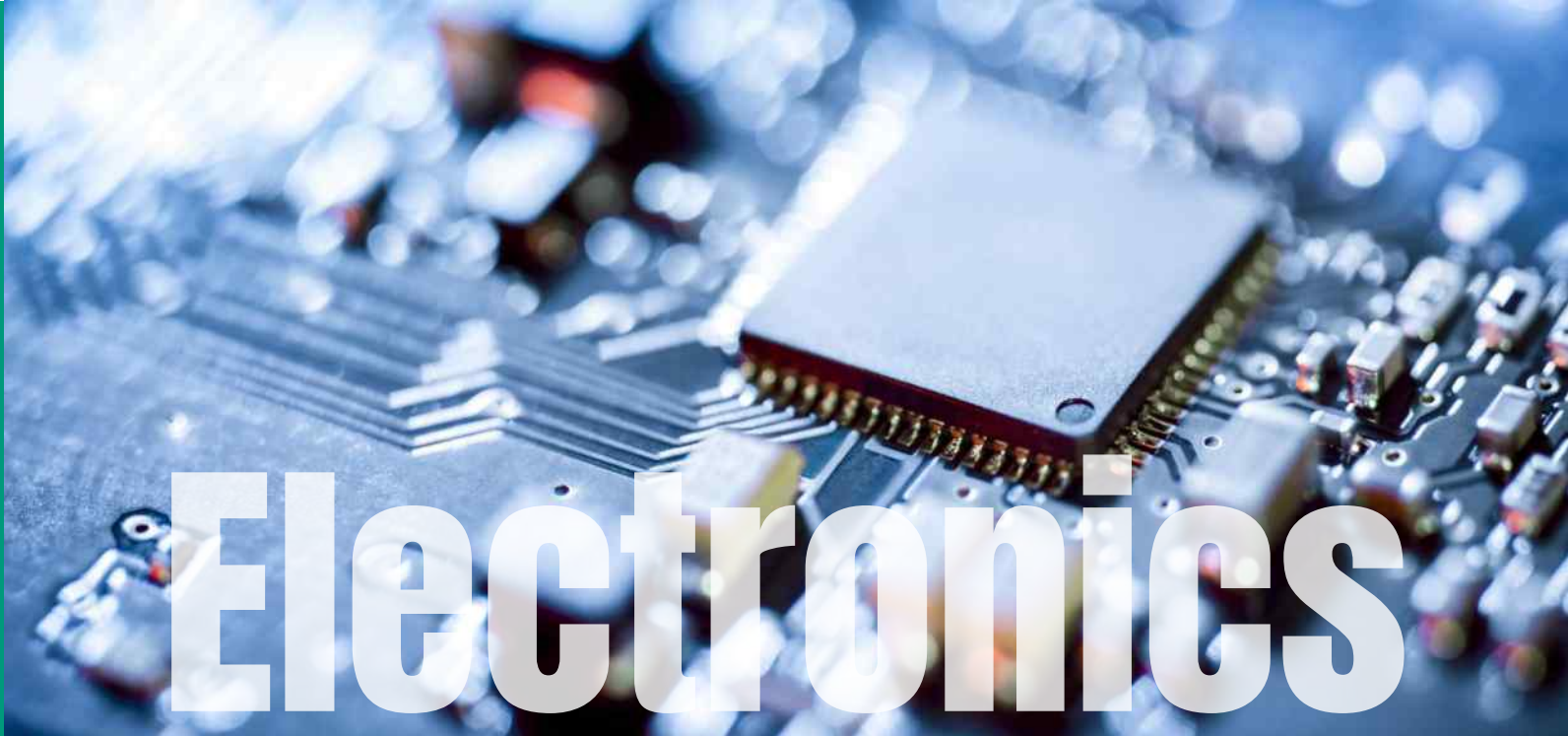
Since 1998, Polymer Science, Inc. has specialized in the development and manufacture of engineered adhesive, coating, and functional material solutions for the medical device, electronics, automotive, industrial, and consumer markets. Our expertise in material formulation, coating technologies, and precision converting enables us to deliver high-performance products that meet demanding application requirements while maintaining consistent quality and reliability.

To better support our global customers, Suzhou Polymer Science was established in 2012 to provide localized manufacturing, technical support, and customer service throughout Asia. Together, our experienced engineering teams, advanced manufacturing capabilities, and commitment to continuous innovation allow us to develop customized material solutions that help customers improve product performance, manufacturing efficiency, and long-term reliability.

Locations	
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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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EMI Shielding and Grounding Materials

P-SHIELD® Shielding and Grounding Materials

Polymer Science, Inc. offers a comprehensive portfolio of EMI shielding and electrical grounding materials engineered to meet the performance requirements of today's electronic devices and systems. The P-SHIELD® product family includes conductive foams, conductive fabrics, conductive tapes, metal foils, elastomers, and specialty materials designed to provide reliable electromagnetic interference (EMI) shielding, electrical grounding, and environmental sealing.

P-SHIELD® materials are used in applications ranging from consumer electronics and telecommunications equipment to automotive electronics, medical devices, industrial controls, and data center infrastructure. Supported by experienced application engineers and custom converting capabilities, Polymer Science works closely with customers to develop material solutions that improve shielding performance, simplify assembly, and enhance long-term product reliability.

P-SHIELD® Advantages

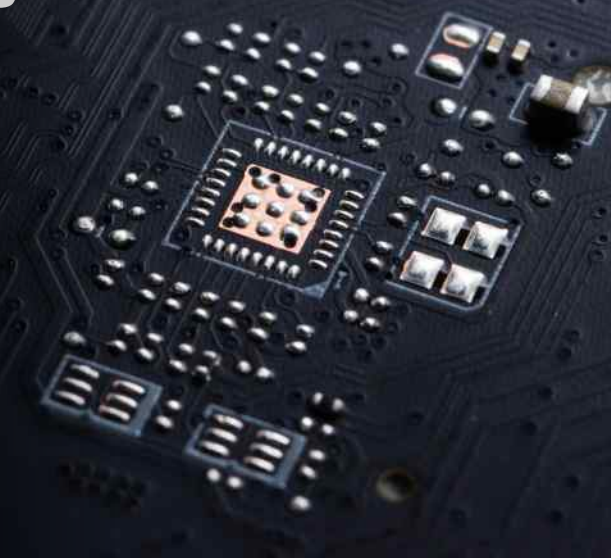
- Comprehensive portfolio of EMI shielding and grounding materials
- Excellent electrical conductivity and low contact resistance
- High-performance materials for demanding applications
- Custom converting and die-cutting capabilities
- Engineering support for material selection and design
- Consistent manufacturing quality and global supply support



Conductive Foam Tape						
Product	Thickness	Foam Type	Adhesive Peel Force	Surface Resistivity	Z-Axis Resistance	Hardness
PS-3229	0.3-1.0mm	PU foam	>800 g/25mm	<0.5 Ω/sq	<0.5 Ω/in ²	Hard ↑
PS-3223	0.2-1.0mm	PU foam	>200 g/25mm	<0.5 Ω/sq	<0.5 Ω/in ²	
PS-3224	0.2-1.0mm	PU foam	>200 g/25mm	<0.5 Ω/sq	<0.5 Ω/in ²	
PS-2364	0.3-1.5mm	PO foam	>800 g/25mm	<0.2 Ω/sq	<0.2 Ω/in ²	
PS-1204	0.3-1.5mm	PO foam	400 g/25mm	<0.2 Ω/sq	<0.1 Ω/in ²	
PS-1206	0.3-2.5mm	PU foam	>800 g/25mm	<0.5 Ω/sq	<0.5 Ω/in ²	
PS-1321	0.3-4.0mm	PU foam	1000 g/25mm	<0.1 Ω/sq <0.5 Ω/sq	<0.5 Ω/in ²	
PS-1323	0.2-4.0mm	PU foam	0.2mm: >700 g/25mm >0.2mm: >800 g/25mm	<0.5 Ω/sq	<0.5 Ω/in ²	
PS-1768	0.3-4.5mm	PU foam	800 g/25mm	<0.5 Ω/sq <1.0 Ω/sq (6.5mm thickness only)	<0.5 Ω/in ² <1.0 Ω/in ² (6.5mm thickness only)	
PS-3225	0.2-4.0mm	PU foam	>800 g/25mm	<0.5 Ω/sq	<0.5 Ω/in ²	
PS-3226	0.2-4.0mm	PU foam	>800 g/25mm	<0.5 Ω/sq	<0.5 Ω/in ²	Soft ↓
PS-2360	0.3-0.7mm	PU foam	>800 g/25mm	<0.5 Ω/sq	<0.5 Ω/in ²	
PS-2394	0.15-0.3mm	Super thin PU foam	>800 g/25mm	<0.2 Ω/sq	<0.2 Ω/in ²	
PS-1300	0.08/0.1/0.18 /0.23mm	Super thin PU foam	>800 g/25mm	<0.2 Ω/sq	<0.2 Ω/in ²	Super thin

Gold Conductive Foam Tape						
Product	Thickness	Structure	Adhesive Peel Force	Surface Resistivity	Z-Axis Resistance	Color
PS-2711	0.10-0.15mm	PU foam with fabric surface	800 g/25mm	<0.2 Ω/sq	<0.2 Ω/in ²	Gold
PS-2707	0.15-0.30mm	PU foam with fabric surface	>600 g/25mm	<0.2 Ω/sq	<0.2 Ω/in ²	Gold
PS-3274	0.15-0.40mm	PU foam with fabric surface	>800 g/25mm	<0.2 Ω/sq	<0.2 Ω/in ²	Gold
PS-3273	0.2-1.0mm	PU foam with fabric surface	>200 g/25mm	<0.5 Ω/sq	<0.5 Ω/in ²	Gold
PS-2706	0.20-0.25mm	PU foam	>600 g/25mm	<0.2 Ω/sq	<0.2 Ω/in ²	Gold
PS-3277	0.30mm	PU foam	>700 g/25mm	<0.5 Ω/sq	<0.5 Ω/in ²	Gold
PS-3272	0.20-1.0mm	PU foam with fabric surface	>800 g/25mm	<0.5 Ω/sq	<0.5 Ω/in ²	Gold

Electronics Shielding and Grounding Materials



Conductive Tape					
Product	Thickness	Tape Type	Adhesive Peel Force	Surface Resistivity	Color
PS-1796	0.02mm	Woven	>800 g/25mm	<0.2 Ω/sq	Black
PS-2753	0.025mm	Non-woven	>600 g/25mm	<0.4 Ω/sq <0.3 Ω/sq	Black
PS-2391	0.03mm	Woven	>600 g/25mm	<0.2 Ω/sq	Black
PS-2703	0.035mm	Woven	800 g/25mm	<0.15 Ω/sq	Gold
PS-1393	0.039mm	Woven	>1000 g/25mm	<0.1 Ω/sq	Black
PS-1374	0.045mm	Woven	1300 g/25mm	<0.1 Ω/sq	Black
PS-1342	0.05mm	Woven	>1000 g/25mm	<0.1 Ω/sq	Black
PS-1343	0.045/0.035 mm	Woven	>800 g/25mm	<0.1 Ω/sq	Black
PS-1326	0.055mm	Woven	>1200 g/25mm	<0.1 Ω/sq	Black
PS-1753	0.055mm	Woven/High peel force	>1500 g/25mm	<0.2 Ω/sq	Black
PS-2786	0.055mm	Woven/High peel force	>2000 g/25mm	<0.5 Ω/sq <0.2 Ω/sq	Black
PS-3293	0.06mm	Woven	>1400 g/25mm	<0.05 Ω/sq	Black
PS-1358	0.07mm	Woven	>1000 g/25mm	<0.1 Ω/sq	Black
PS-2725	0.08mm	Woven	>1600 g/25mm	<0.3 Ω/sq	Black
PS-1329	0.11mm	Woven	1500 g/25mm	<0.15 Ω/sq	Black
PS-1330	0.11mm	Woven/High peel force	2000 g/25mm	<0.15 Ω/sq	Black
PS-2781	0.11mm	Woven	900 g/25mm	<0.15 Ω/sq	Black
PS-2723	0.11mm	Rip-stop	>900 g/25mm	<0.1 Ω/sq	Black
PS-2782	0.13mm	Woven	1000 g/25mm	<0.2 Ω/sq	Black
PS-3264	0.13mm	Woven	>1000 g/25mm	<0.2 Ω/sq	Grey
PS-2337	0.15mm	Woven	>800 g/25mm	<0.1 Ω/sq	Black
PS-3260	0.20mm	Woven	>800 g/25mm	<0.2 Ω/sq	Black
PS-3287	0.45mm	Woven	>800 g/25mm	<0.2 Ω/sq	Black
PS-3299	0.7mm	Woven	>800 g/25mm	<0.2 Ω/sq	Black

Heat Activated Film Conductive Tape				
Product	Thickness	Color	Surface Resistivity	Shielding Effectiveness
PS-2339	0.028mm	Grey	<0.07 Ω/sq	50-70dB
PS-1394	0.06mm	Black	<0.07 Ω/sq	70-100dB
PS-1382	0.065mm	Black	<0.05 Ω/sq	70-100dB
PS-1395	0.08mm	Black	<0.05 Ω/sq	70-80dB
PS-1398	0.09mm	Black	<0.07 Ω/sq (Fabric Side) <0.50 Ω/sq (Adhesive Side)	70-100dB

Electronics Shielding and Grounding Materials



Conductive Tape with cPSA on Both Sides

Product	Thickness	Tape Type	Adhesive Peel Force	Surface Resistivity	Z-Axis Resistance
PS-2780	0.02mm	Non-woven	>500 g/25mm	<0.3 Ω/sq	<0.3 Ω/in ²
PS-2754	0.025mm	Non-woven	>500 g/25mm	<0.3 Ω/sq	<0.3 Ω/in ²
PS-1354	0.03mm	Woven	>1200 g/25mm	<0.3 Ω/sq	<0.1 Ω/in ²
PS-1332	0.05/0.11mm	Non-woven	>800 g/25mm	<0.1 Ω/sq	<0.1 Ω/in ²
PS-2784	0.075mm	Woven	1000 g/25mm	<0.3 Ω/sq	<0.3 Ω/in ²
PS-2755	0.08mm	Woven	>1800 g/25mm	<0.3 Ω/sq	<0.3 Ω/in ²
PS-3290	0.12mm	Woven	>1500 g/25mm	<0.2 Ω/sq	<0.2 Ω/in ²
PS-1336	0.13mm	Woven	>900 g/25mm	<0.1 Ω/sq	<0.1 Ω/in ²
PS-2395	0.15mm	Woven	800 g/25mm	<0.2 Ω/sq	<0.2 Ω/in ²
PS-2750	0.19mm	Non-woven	>1000 g/25mm	<0.1 Ω/sq	<0.1 Ω/in ²
PS-1790	0.2mm	Woven	>800 g/25mm	<0.2 Ω/sq	<0.2 Ω/in ²
PS-1347	0.25mm	Woven	>800 g/25mm	<0.2 Ω/sq	<0.1 Ω/in ²
PS-1352	0.3mm	Woven	>600 g/25mm	<0.1 Ω/sq	<0.1 Ω/in ²
PS-1791	0.35mm	Woven	>1000 g/25mm	<0.5 Ω/sq	<0.5 Ω/in ²

Conductive Fabric

Product	Thickness	Tape Type	Surface Resistivity	Shielding Effectiveness	Color
PS-2348	0.016mm	Woven	<0.08 Ω/sq	>50dB	Grey
PS-0903	0.018mm	Woven	<0.1 Ω/sq	>50dB	Black
PS-0932	0.025mm	Woven	<0.2 Ω/sq	65-80dB	Black
PS-0938	0.022mm	Rip-stop	<0.2 Ω/sq	65-80dB	Black
PS-1371	0.032mm	Rip-stop	<0.1 Ω/sq	70-100dB	Black
PS-0908	0.03mm	Woven	<0.07 Ω/sq	65-85dB	Grey
PS-0906	0.03mm	Woven	<0.08 Ω/sq	55dB	Gold
PS-0909	0.032mm	Rip-stop	<0.07 Ω/sq	65-85dB	Grey
PS-1373	0.055mm	Woven	<0.07 Ω/sq	70-80dB	Black
PS-1380	0.055mm	Woven	<0.5 Ω/sq	70-100dB	Grey
PS-1388	0.08mm	Woven	<0.5 Ω/sq	70-80dB	Black
PS-1389	0.10mm	Woven	<0.07 Ω/sq	70-80dB	Black
PS-2352	0.12mm	Woven	<0.07 Ω/sq	70-80dB	Grey
PS-0933	0.13mm	Woven	<0.1 Ω/sq	65-80dB	Grey
PS-2356	0.15mm	Woven	<0.07 Ω/sq	>50dB	Black
PS-1399	0.18/0.27mm	Woven	<0.07 Ω/sq	70-100dB	Black

*Based on internal test methods

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Conductive Adhesive					
Product	Thickness	Type	Adhesive Peel Force	Surface Resistivity	Z-Axis Resistance
PS-2397	0.005mm	cPSA	>300 g/25mm	<0.1 Ω/sq	<0.1 Ω/in ²
PS-2336	0.01mm	cPSA	>800 g/25mm	<0.1 Ω/sq	<0.1 Ω/in ²
PS-2757	0.015mm	cPSA	>1200 g/25mm	<0.07 Ω/sq	<0.1 Ω/in ²
PS-2396	0.02mm	cPSA	>1000 g/25mm	<0.1 Ω/sq	<0.1 Ω/in ²
PS-3288	0.025mm	cPSA	>600 g/25mm	<0.15 Ω/sq	<0.15 Ω/in ²
Conductive Heat Activated Film					
Product		Thickness		Surface Resistivity	
PS-1747		0.015/0.03mm		<0.05 Ω/sq	
PS-1748		0.05mm		<0.05 Ω/sq	
PS-2362		0.08/0.1mm		<0.05 Ω/sq	

HAF: Heat Activated Film

cPSA: Conductive Pressure Sensitive Adhesive

Copper Tape					
Product	Thickness	Color	Adhesive Peel Force	Surface Resistivity	Z-Axis Resistance
PS-3255	0.02mm	Copper red	>700 g/25mm	<0.2 Ω/sq	<0.2 Ω/in ²
PS-1761	0.025mm	Copper red	1000 g/25mm	<0.2 Ω/sq	<0.2 Ω/in ²
PS-2367	0.03mm	Copper red	>800 g/25mm	<0.05 Ω/sq	<0.05 Ω/in ²
PS-3257	0.03mm	Black	>1000 g/25mm	<0.3 Ω/sq <0.1 Ω/sq	<0.2 Ω/in ²
PS-1774 with PET	0.035-0.1mm	Copper red	>1000 g/25mm	<0.2 Ω/sq	<0.2 Ω/in ²
PS-2769	0.05mm	Copper red	1000 g/25mm	<0.2 Ω/sq	<0.2 Ω/in ²
PS-2369	0.06mm	Copper red	1400 g/25mm	<0.05 Ω/sq	<0.05 Ω/in ²
PS-1690	0.016mm	Black	>500 g/25mm	<0.05 Ω/sq <0.1 Ω/sq	<0.15 Ω/in ²
PS-2763	0.055mm	Black	>1000 g/25mm	<0.2 Ω/sq	<0.2 Ω/in ²
PS-2765	0.035mm	Black	>700 g/25mm	<0.1 Ω/sq <0.05 Ω/sq	<0.15 Ω/in ²
PS-2767	0.1mm	Copper red	>1200 g/25mm	<0.08 Ω/sq	<0.08 Ω/in ²
PS-3280	0.33mm	Copper red	>2000 g/25mm	<0.05 Ω/sq	<0.05 Ω/in ²

Copper Tape with cPSA on Both Sides					
Product	Thickness	Color	Adhesive Peel Force	Surface Resistivity	Z-Axis Resistance
PS-2398	0.01mm	Copper red	>500 g/25mm	<0.05 Ω/sq	<0.05 Ω/in ²
PS-2770	0.015mm	Copper red	>600 g/25mm	<0.08 Ω/sq	<0.2 Ω/in ²
PS-2771	0.02mm	Copper red	>800 g/25mm	<0.1 Ω/sq	<0.05 Ω/in ²
PS-2772	0.03mm	Copper red	>1200 g/25mm	<0.1 Ω/sq	<0.2 Ω/in ²
PS-2773	0.05mm	Copper red	>1200 g/25mm	<0.1 Ω/sq	<0.2 Ω/in ²
PS-2774	0.07mm	Copper red	>1200 g/25mm	<0.1 Ω/sq	<0.05 Ω/in ²
PS-2799	0.1mm	Copper red	>1500 g/25mm	<0.1 Ω/sq	<0.1 Ω/in ²

Copper Foil				
Product	Thickness	Color	Surface Resistivity	Z-Axis Resistance
PS-2350	0.01/0.025/ 0.035/0.07mm	Copper red	<0.3 Ω/sq	<0.3 Ω/in ²
PS-3279	0.015mm	Gold	<0.05 Ω/sq	<0.01 Ω/in ²

Copper Foil Graphite					
Product	Thickness	Color	Adhesive Peel Force	Adhesive Type	
PS-1672	0.15mm	Copper foil+ Graphite	>800g/25mm	Acrylic	
Nickel Tape					
Product	Thickness	Type	Adhesive Peel Force	Surface Resistivity	Z-Axis Resistance
PS-3269	0.012/0.015 mm	Nickel foil+ cPSA	>600 g/25mm	<0.2 Ω/sq	<0.2 Ω/in ²
Nickel Foil					
Product	Thickness	Color	Surface Resistivity	Z-Axis Resistance	
PS-0458	0.012mm	Grey	<0.07 Ω/sq	N/A	
PS-0433	0.012mm	Gold	<0.05 Ω/sq	N/A	
Non-conductive Tape					
Product		Thickness	Color	Adhesive Peel Force	
PS-0216		0.05mm	Black	>1000 g/25mm	
PS-0215		0.11mm	Black	>1000 g/25mm	
PS-0390		0.25/0.3/0.36mm	Black	>1000 g/25mm	
PS-0223		0.08mm	Black	>1600 g/25mm	

Non-conductive Fabric			
Product		Thickness	Color
PS-0202		0.02mm	Black
PS-0201		0.04mm	Black
Non-conductive Foam			
Product		Thickness	Color
PS-0246		0.2-4.0mm	Black
PS-2923		3.18-12.7mm	Black/Grey
PS-2926		1.59-12.7mm	Black/Grey
PS-2927		0.79-18mm	Black/Grey
Non-conductive Adhesive			
Product	Thickness	Type	Adhesive Peel Force
PS-0292	0.025mm	PSA	>600 g/25mm
PS-2401	0.038mm	Medical grade PSA	>2000 g/25mm
PS-0236	0.015mm	HAF	N/A
PS-0237	0.1-0.3mm	Silicone PSA	>1500 g/25mm
PS-0238	0.1-0.3mm	Silicone PSA	>1500 g/25mm

TPU Elastomer			
Product	Thickness	Hardness	Color
PS-1176	0.45mm	80D	Black
PS-1177	0.45mm	70D	Black
PS-1190	0.1-1.75mm	60D	Black
PS-1190L	0.1-1.75mm	60D	Black
PS-1173	0.1-1.75mm	50D	Black
PS-1175	0.1-1.75mm	40D	Black
PS-1140	0.1-1.75mm	95A	Clear
PS-1169	0.1-1.75mm	95A	Black
PS-1199	0.1-1.75mm	90A	Black
PS-1198	0.1-1.75mm	85A	Black
PS-1144	0.1-1.75mm	74A	Black
PS-1143	0.1-1.75mm	74A	White
PS-1083	0.025mm	Soft	Clear/Medical grade
PS-1082	0.05mm	Soft	Clear/Medical grade

Silicone Elastomer				
Product	Thickness	Hardness	Color	Structure
PS-0343	0.05mm	50A	Black	non-removable PET+Silicone Elastomer
PS-0344	0.1mm-0.3mm	30A	Black	non-removable PET+Silicone Elastomer+non-removable PET
PS-0336	0.1mm-0.7mm	50A	Black	non-removable PET+Silicone Elastomer+non-removable PET
PS-0337	0.1mm-0.7mm	60A	Black	non-removable PET+Silicone Elastomer+non-removable PET
PS-0338	0.1mm-0.7mm	70A	Black	non-removable PET+Silicone Elastomer+non-removable PET
PS-0339	0.1mm-0.7mm	80A	Black	non-removable PET+Silicone Elastomer+non-removable PET

***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.