

Accelerated Aging Summary

P-DERM®

PS-3020

Product Description:

P-DERM® PS-3020 is a single coated, high adhesion silicone gel adhesive tape with a polyurethane film carrier where consistent adhesion and repositionability is required. PS-3020 is supplied with a 100 micron polyethylene liner.

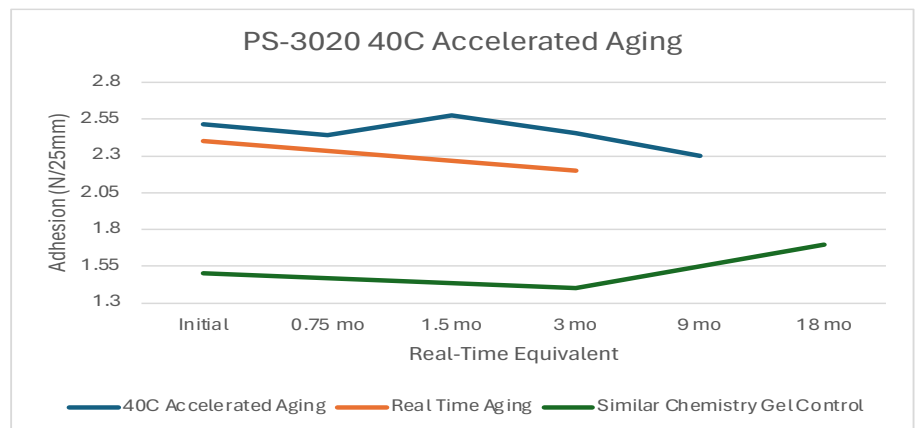
Construction / Properties:

Property	Value	Test Method
Silicone Gel Coat Weight	150 ± 25 gsm	QSP-724
Silicone Adhesion	>2.0 N/25mm	QSP-723
Continuous Use Conditions	10 - 70 C	QSP-754

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PS-3020 was placed in a 40 C oven and adhesion measured at specific timepoints as shown in the plot and table below. To confirm validity of the 40 C data, real-time aging of PS-3020 was also performed. The data can also be found below as well as a control, PS-1243, which utilizes a similar, but lower adhesion silicone chemistry at room temperature to draw correlations about the trending data. Across the test period, 9 month equivalent, a loss in adhesion of 8.5% was observed. A similar loss was measured at 3 months with the real-time, room temperature aging sample. The PS-1243 control sample lost 6.7% over the 3 month real-time aging, but gained 13.3% from the initial value at 18 month real-time aging. All of the changes throughout the time period are within the potential error of the adhesion test method, but still indicate data well within the specification limit of >2.0 N/25mm.

RT Equivalent	PS-3020 Accel	PS-3020 RT	PS-1243 control
Initial	2.5	2.4	1.5
0.75 mo	2.4		
1.5 mo	2.6		
3 mo	2.5	2.2	1.4
9 mo	2.3		
18 mo			1.7



Specific tests should be performed by the end user to determine the product stability for the particular application.

For Additional Information:

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