

BRADY B-8463 DAMPING PAD - ACRYLIC PRESSURE SENSITIVE ADHESIVE WITH POLYESTER FILM BACKING

TDS No. B-8463
Effective Date: 10/01/2009

Description:

CONSTRUCTION

Substrate: 2.0 mil clear polyester film
Adhesive Layer: 9.0 mil high tack, acrylic-based, permanent pressure sensitive adhesive
Release Liner: white kraft paper

APPLICATIONS

Brady Damping Pad is designed as a viscoelastic damping treatment to be applied between components where relative vibratory motion is present. The energy dissipating properties of the material provide excellent damping at room temperature as the material is subject to cyclic strain. The soft, cushioning nature of the thick material helps reduce unwanted squeak and rattle issues where components otherwise make hard contact.

SPECIAL FEATURES

The adhesive side of the Damping Pad provides excellent bonding to most substrates with light contact pressure at room temperature. The Damping Pad can be converted to any part shape.

Details:

PHYSICAL PROPERTIES	TEST METHOD	AVERAGE RESULTS																
Thickness	ASTM D 1000 -Substrate -Adhesive -Total	0.0020 inch (0.051 mm) 0.0090 inch (0.229 mm) 0.0110 inch (0.279 mm)																
Adhesion to:	ASTM D 1000																	
-Stainless Steel	20 minute dwell 24 hour dwell @ 70 °C	158 oz/in (43.9 N/25mm) 188 oz/in (52.3 N/25mm)																
-Smooth ABS	20 minute dwell 24 hour dwell @ 70 °C	165 oz/in (45.9 N/25mm) 203 oz/in (56.4 N/25mm)																
Tack	ASTM D 2979 Polyken™ Probe Tack 1 second dwell	1112 g																
Shear Adhesion Failure Temperature (SAFT)	ASTM D4498-95 (except use 25mm X 25mm X 1Kg)	50°C																
Typical Release	ASTM D 1000	3 - 25 g/inch																
Peak Damping Value	ASTM E 756	Material Damping @ 1000 Hz <table border="1"> <thead> <tr> <th>Temp (°F)</th> <th>Eta*</th> </tr> </thead> <tbody> <tr><td>0</td><td>0.70</td></tr> <tr><td>25</td><td>1.18</td></tr> <tr><td>50</td><td>1.45</td></tr> <tr><td>75</td><td>1.30</td></tr> <tr><td>100</td><td>1.00</td></tr> <tr><td>125</td><td>0.78</td></tr> <tr><td>150</td><td>0.63</td></tr> </tbody> </table>	Temp (°F)	Eta*	0	0.70	25	1.18	50	1.45	75	1.30	100	1.00	125	0.78	150	0.63
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		*Eta = G''/G'																

Trademarks:

ASTM: American Society for Testing and Materials (U.S.A.)

Polyken™ is a trademark of Testing Machines Inc.

Note: All values shown are averages and should not be used for specification purposes.

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