

3M Scotch-Weld™ DP605NS Structural Adhesive

Category : Polymer , Adhesive

Material Notes:

3M™ Scotch-Weld™ Urethane Adhesives are two-part, non-sag urethane adhesives. They feature tough, flexible bonds with good adhesion to a wide variety of substrates especially wood and many properly abraded and cleaned plastics. Good adhesion can also be obtained on etched aluminum as well as primed aluminum, steel glass. For maximum bond durability under moisture conditions, priming of glass and metal substrates is required. Information provided by 3M

Order this product through the following link:

http://www.lookpolymers.com/polymer_3M-Scotch-Weld-DP605NS-Structural-Adhesive.php

Physical Properties	Metric	English	Comments
Viscosity	150000 cP	150000 cP	

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	75 - 85	75 - 85	ASTM D2240
Elongation at Break	100 %	100 %	ASTM D882
Shear Strength	9.31 MPa	1350 psi	

Thermal Properties	Metric	English	Comments
CTE, linear	121 µm/m-°C	67.2 µin/in-°F	below Tg
	219 µm/m-°C	122 µin/in-°F	above Tg
Glass Transition Temp, Tg	41.0 °C	106 °F	

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+14 ohm-cm	1.00e+14 ohm-cm	ASTM D257
Dielectric Constant	3.1	3.1	ASTM D150
	@Frequency 1000 Hz	@Frequency 1000 Hz	
Dielectric Strength	25.2 kV/mm	640 kV/in	ASTM D149
Dissipation Factor	0.021	0.021	ASTM D150
	@Frequency 1000 Hz	@Frequency 1000 Hz	

Processing Properties	Metric	English	Comments
Cure Time	15.0 - 20.0 min	0.250 - 0.333 hour	Time to Handling Strength

Processing Properties	2880 min Metric	48.0 hour English	Full Cure Comments
Descriptive Properties	Value		Comments
Appearance	Off-White		

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