

3M Scotch-Weld™ DP405 LH Epoxy Adhesive

Category : Polymer , Thermoset , Epoxy , Epoxy Adhesive

Material Notes:

3M™ Scotch-Weld™ Epoxy Adhesive DP405 LH is a two-part, 2:1 mix ratio, toughened epoxy structural adhesive which has a 5 minute work life and accelerated cure. It exhibits excellent shear and peel strengths along with good impact and durability. It bonds extremely well to many surfaces. It also has lower odor when compared to traditional fast cure epoxies and acrylic adhesives. It is formulated for low halogen content. Information provided by 3M

Order this product through the following link:

http://www.lookpolymers.com/polymer_3M-Scotch-Weld-DP405-LH-Epoxy-Adhesive.php

Physical Properties	Metric	English	Comments
Brookfield Viscosity	6500 cP	6500 cP	Accelerator, RVF #7 spindle, 20 rpm
	11000 cP	11000 cP	Base, RVF #7 spindle, 20 rpm

Mechanical Properties	Metric	English	Comments
Shear Strength	0.193 MPa	28.0 psi	Overlap HDPE
	0.607 MPa	88.0 psi	Overlap, Polyacrylic
	1.93 MPa	280 psi	Overlap, Polycarbonate
	2.41 MPa	350 psi	Overlap, ABS
	14.8 MPa	2140 psi	Overlap, Galvanized Steel Hot dipped
	15.2 MPa	2200 psi	Overlap, Aluminum MEK/abrade/MEK
	15.2 MPa	2200 psi	Overlap, CRS MEK/abrade/MEK
	32.1 MPa	4650 psi	Etched Aluminum Overlap, Methyl Ethyl Keton, RT for 30 days immersion
	35.4 MPa	5140 psi	Etched Aluminum Overlap, Water Vapor 66°C, 80% RH for 14 days
	38.1 MPa	5530 psi	Overlap, Aluminum Etched
	38.1 MPa	5530 psi	Etched Aluminum Overlap, RT/50% RH for 14 days
	24.1 MPa	3500 psi	Aluminum Overlap
	@Temperature -55.0 °C	@Temperature -67.0 °F	
	36.5 MPa	5300 psi	Aluminum Overlap
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	5.86 MPa	850 psi	

Mechanical Properties	Metric	English	Comments
	@ Temperature 82.0 °C, Time 900 sec	@ Temperature 180 °F, Time 0.250 hour	Aluminum Overlap
	13.0 MPa	1890 psi	Aluminum Overlap
	@Time 14400 sec	@Time 4.00 hour	
Peel Strength	1.93 kN/m	11.0 pli	Aluminum, Bell Peel
	@Temperature 82.0 °C	@Temperature 180 °F	
	2.63 kN/m	15.0 pli	Aluminum, Bell Peel
	@Temperature -55.0 °C	@Temperature -67.0 °F	
	3.68 kN/m	21.0 pli	Aluminum, Bell Peel
	@Temperature 23.0 °C	@Temperature 73.4 °F	

Processing Properties	Metric	English	Comments
Cure Time	8.00 - 10.0 min	0.133 - 0.167 hour	Time to Handling Strength

Descriptive Properties	Value	Comments
Appearance	Clear	
	Off-white	

Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com

Email : sales@lookpolymers.com

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China