

Master Bond FLM36 B-staged film for high performance bonding and sealing

Category : Polymer , Film , Thermoset , Epoxy , Epoxy , High Temperature

Material Notes:

Master Bond FLM36 is a film adhesive with exceptional strength properties, high temperature resistance and first class thermal conductivity and electrical insulation properties. Based on the Master Bond EP36AO formulation, this film differs from other heat resistant epoxies for it possesses far more toughness and flexibility than conventional high temperature resistant epoxies. High temperature resistant Thermally conductive Tough and flexible Doesn't require freezing or refrigeration Excellent electrical insulation properties Uniform bond line thickness

Order this product through the following link:

http://www.lookpolymers.com/polymer_Master-Bond-FLM36-B-staged-film-for-high-performance-bonding-and-sealing.php

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	22	22	
	@Temperature 177 °C	@Temperature 350 °F	
	27	27	
	@Temperature 100 °C	@Temperature 212 °F	
	80	80	
	@Temperature 23.9 °C	@Temperature 75.0 °F	
Tensile Strength	>= 13.8 MPa	>= 2000 psi	
Elongation at Break	>= 50 %	>= 50 %	
Adhesive Bond Strength	>= 27.6 MPa	>= 4000 psi	tensile lap shear, Al to Al

Thermal Properties	Metric	English	Comments
CTE, linear	70.0 - 82.0 $\mu\text{m}/\text{m}\cdot\text{°C}$	38.9 - 45.6 $\mu\text{in}/\text{in}\cdot\text{°F}$	
Thermal Conductivity	1.30 - 1.44 W/m-K	9.00 - 10.0 BTU-in/hr-ft ² -°F	
Maximum Service Temperature, Air	260 °C	500 °F	
Minimum Service Temperature, Air	-73.3 °C	-100 °F	
Glass Transition Temp, Tg	30.0 °C	86.0 °F	

Electrical Properties	Metric	English	Comments
Volume Resistivity	>= 1.00e+14 ohm-cm	>= 1.00e+14 ohm-cm	
Dielectric Constant	4.1	4.1	

Electrical Properties	@Frequency 60.0 Hz Metric	@Frequency 60.0 Hz English	Comments
Processing Properties	Metric	English	Comments
Processing Temperature	177 °C	350 °F	
	@Time 3600 - 7200 sec	@Time 1.00 - 2.00 hour	
Shelf Life	6.00 Month	6.00 Month	unopened containers at RT

Descriptive Properties	Value	Comments
Color	Black	

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