

Permabond ES562 Epoxy Resin

Category : Polymer , Adhesive , Thermoset , Epoxy , Epoxy Adhesive

Material Notes:

PERMABOND® ES562 is a single-part epoxy adhesive which flows like solder when heated during curing. The adhesive has excellent adhesion to metal surfaces and composites. The high bond strength of this adhesive allows it to replace mechanical fastening, soldering or brazing. The adhesive's low viscosity is such that it self-levels. Features & Benefits: Excellent adhesive strength Excellent resistance to vibration Easy to use – no mixing required High shear strength High temperature resistance Good resistance to chemicals Information provided by Permabond.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Permabond-ES562-Epoxy-Resin.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.20 g/cc	1.20 g/cc	Uncured
Viscosity	15000 - 30000 cP @Temperature 25.0 °C	15000 - 30000 cP @Temperature 77.0 °F	Uncured
Storage Temperature	2.00 - 7.00 °C	35.6 - 44.6 °F	

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	80	80	ISO 868
Adhesive Bond Strength	14.0 - 27.0 MPa	2030 - 3920 psi	Aluminum, Shear; ISO 4587
	14.0 - 27.0 MPa	2030 - 3920 psi	Zinc, Shear; ISO 4587
	20.0 - 35.0 MPa	2900 - 5080 psi	Steel , Shear; ISO 4587

Thermal Properties	Metric	English	Comments
CTE, linear	45.0 µm/m-°C	25.0 µin/in-°F	
Thermal Conductivity	0.550 W/m-K	3.82 BTU-in/hr-ft²-°F	

Processing Properties	Metric	English	Comments
Cure Time	<= 3.00 min	<= 0.0500 hour	Induction
	30.0 min @Temperature 150 °C	0.500 hour @Temperature 302 °F	Oven
	45.0 min @Temperature 120 °C	0.750 hour @Temperature 248 °F	Oven

Shelf Life Processing Properties	6.00 Month Metric	6.00 Month English	Comments
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Descriptive Properties	Value	Comments
Appearance	White	Uncured
Maximum Gap Fill (mm)	0.25	
Strength Retention	100% at 0°C	Relative to 0°C
	25% at 200°C	Relative to 0°C
	65% at 150°C	Relative to 0°C
	85% at 100°C	Relative to 0°C
	95% at 50°C	Relative to 0°C

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