

Hybrid Plastics POSSÂ® EP 2000 Epoxy Adhesive

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

Material Notes:

EP2000 is a POSSÂ® based, ultra-high temperature epoxy adhesive. The POSSÂ® content in EP2000 offers unique properties such as high thermal stability, outstanding oxygen and chemical resistance. It provides an exceptional transparent adhesive in these high temperature conditions for metallic, molded plastic and composite materials. Major applications include composites, medical devices, and electronics. Information provided by Hybrid Plastics

Order this product through the following link:

http://www.lookpolymers.com/polymer_Hybrid-Plastics-POSS-EP-2000-Epoxy-Adhesive.php

Physical Properties	Metric	English	Comments
Density	1.20 g/cc	0.0434 lb/inÂ³	after cure
Viscosity	<= 5000 cP	<= 5000 cP	

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	83	83	
Modulus of Elasticity	1.00 - 1.50 GPa	145 - 218 ksi	

Thermal Properties	Metric	English	Comments
CTE, linear	150 Âµm/m-Â°C @Temperature 20.0 Â°C	83.3 Âµin/in-Â°F @Temperature 68.0 Â°F	
Glass Transition Temp, Tg	>= 300 Â°C	>= 572 Â°F	

Optical Properties	Metric	English	Comments
Transmission, Visible	90 %	90 %	transparent; thickness not quantified

Processing Properties	Metric	English	Comments
Cure Time	6.00 min @Temperature 80.0 Â°C	0.100 hour @Temperature 176 Â°F	
Pot Life	180 min	180 min	
Shelf Life	6.00 - 12.0 Month	6.00 - 12.0 Month	

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