

Hybrid Plastics POSSÂ® EP 1000 Epoxy Adhesive

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

Material Notes:

EP1000 is a POSSÂ® based epoxy adhesive with outstanding oxidative resistance to ozone, plasma, or atomic oxygen environments. The EP1000 POSSÂ® Epoxy is also well-suited for peroxide and steam. It provides an exceptional transparent adhesive in these conditions for metallic, molded plastic and composite materials. Information provided by Hybrid Plastics

Order this product through the following link:

http://www.lookpolymers.com/polymer_Hybrid-Plastics-POSS-EP-1000-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 | 80 - 85 | 80 - 85 | |
| Modulus of Elasticity | 3.00 - 3.50 GPa | 435 - 508 ksi | |

| Thermal Properties | Metric | English | Comments |
|---------------------------|--|---|----------|
| CTE, linear | 50.0 Âµm/m-Â°C @Temperature 20.0 Â°C | 27.8 Âµin/in-Â°F @Temperature 68.0 Â°F | |
| Glass Transition Temp, Tg | 100 - 110 Â°C | 212 - 230 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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