

Evonik Corporation Pleximid® 8805 PMMI Molding Compound

Category : Polymer , Thermoplastic , Polyimide, Thermoplastic , Thermoplastic Polyimide, Unfilled

Material Notes:

Description: PLEXIMID® is a polymethyl methacrylimide (PMMI) product. This molding compound is characterized by its very high heat deflection temperature under load and rigidity. PLEXIMID® molding compounds are particularly suited for injection-molded parts for applications exposed to extreme thermal stress. Information provided by degussa.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Evonik-Corporation-Pleximid-8805-PMMI-Molding-Compound.php

| Physical Properties | Metric | English | Comments |
|---------------------|---|---|----------|
| Density | 1.21 g/cc | 0.0437 lb/in ³ | ISO 1183 |
| Melt Flow | 6.05 g/10 min @Load 10.0 kg, Temperature 260 °C | 6.05 g/10 min @Load 22.0 lb, Temperature 500 °F | ISO 1133 |

| Mechanical Properties | Metric | English | Comments |
|---------------------------|--|--|-------------------|
| Tensile Strength at Break | 87.0 MPa | 12600 psi | 5 mm/min; ISO 527 |
| Elongation at Break | 5.5 % | 5.5 % | 5 mm/min; ISO 527 |
| Tensile Modulus | 4.30 GPa | 624 ksi | 1 mm/min; ISO 527 |
| Charpy Impact Unnotched | 2.00 J/cm ² @Temperature 23.0 °C | 9.52 ft-lb/in ² @Temperature 73.4 °F | ISO 179 |

| Thermal Properties | Metric | English | Comments |
|---|--------------------------|----------------------------|--------------|
| Deflection Temperature at 0.46 MPa (66 psi) | 145 °C | 293 °F | ISO 75 |
| Vicat Softening Point | 150 °C | 302 °F | B50; ISO 306 |
| Flammability, UL94 | HB @Thickness 1.60 mm | HB @Thickness 0.0630 in | IEC 707 |

| Optical Properties | Metric | English | Comments |
|-----------------------|--------|---------|-------------------------------|
| Refractive Index | 1.53 | 1.53 | ISO 489 |
| Transmission, Visible | 90 % | 90 % | Transmission Factor; DIN 5036 |

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