

Evonik Pleximid® 8817 PMMI Molding Compound

Categories: [Polymer](#); [Thermoplastic](#); [Acrylic \(PMMA\)](#)

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.

Evonik Industries is the successor company to Degussa.

Vendors: No vendors are listed for this material. Please [click here](#) if you are a supplier and would like information on how to add your listing to this material.

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

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	90.0 MPa	13100 psi	5 mm/min; ISO 527
Elongation at Break	5.5 %	5.5 %	5 mm/min; ISO 527
Tensile Modulus	4.50 GPa	653 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)	166 °C	331 °F	ISO 75
Vicat Softening Point	170 °C	338 °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	1.54	1.54	ISO 489
Transmission, Visible	90 %	90 %	Transmission Factor; DIN 5036

Some of the values displayed above may have been converted from their original units and/or rounded in order to display the information in a consistent format. Users requiring more precise data for scientific or engineering calculations can click on the property value to see the original value as well as raw conversions to equivalent units. We advise that you only use the original value or one of its raw conversions in your calculations to minimize rounding error. We also ask that you refer to MatWeb's [terms of use](#) regarding this information. [Click here](#) to view all the property values for this datasheet as they were originally entered into MatWeb.