

Diapolyacrylate Acrypet® MF-001 PMMA

Category : Polymer , Thermoplastic , Acrylic (PMMA) , Acrylic, General Purpose, Molded

Material Notes:

Acrypet® is a registered trade mark of Diapolyacrylate Company Limited. Information provided by Dayson Polymers.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Diapolyacrylate-Acrypet-MF-001-PMMA.php

Physical Properties	Metric	English	Comments
Density	1.19 g/cc	0.0430 lb/in ³	ASTM D792
Water Absorption	0.30 %	0.30 %	24 hrs.; ASTM D570
Linear Mold Shrinkage	0.0020 - 0.0060 cm/cm	0.0020 - 0.0060 in/in	ASTM D955
Melt Flow	14 g/10 min @Load 3.80 kg, Temperature 230 °C	14 g/10 min @Load 8.38 lb, Temperature 446 °F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell M	90	90	ASTM D785
Tensile Strength at Break	65.7 MPa	9530 psi	ASTM D638
Elongation at Break	4.0 %	4.0 %	ASTM D638
Modulus of Elasticity	3.23 GPa	469 ksi	ASTM D638
Flexural Yield Strength	98.04 MPa	14220 psi	ASTM D790
Flexural Modulus	3.040 GPa	440.9 ksi	ASTM D790
Compressive Yield Strength	97.9 MPa	14200 psi	ASTM D695
Izod Impact, Notched	0.196 J/cm	0.368 ft-lb/in	0.250 inches; ASTM D256
Impact	115	115	cm Falling Ball Impact

Thermal Properties	Metric	English	Comments
CTE, linear	59.9 µm/m-°C @Temperature 20.0 °C	33.3 µin/in-°F @Temperature 68.0 °F	ASTM D696
Specific Heat Capacity	1.46 J/g-°C	0.349 BTU/lb-°F	
Thermal Conductivity	0.209 W/m-K	1.45 BTU-in/hr-ft ² -°F	ASTM D177
Deflection Temperature at 1.8 MPa	83.00 °C	181.4 °F	ASTM D648

(264 psi) Thermal Properties	Metric	English	Comments
Vicat Softening Point	98.00 °C	208.4 °F	ASTM D1525; 1 kg

Optical Properties	Metric	English	Comments
Refractive Index	1.49	1.49	ASTM D542
Transmission, Visible	93 % @Thickness 3.20 mm	93 % @Thickness 0.126 in	ASTM D1003

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