

Unitika UM-8400-20

Category : Polymer , Thermoplastic , Polyarylate

Material Notes:

Characteristics: High dimensional accuracy (circularity and planarity) Large warping resistance Low linear expansion coefficient
Information provided by Unitika Ltd.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Unitika-UM-8400-20.php

Physical Properties	Metric	English	Comments
Density	1.43 g/cc	0.0517 lb/in ³	ASTM D792
Water Absorption	0.13 % @Thickness 3.17 mm, Time 86400 sec	0.13 % @Thickness 0.125 in, Time 24.0 hour	ASTM D570
Linear Mold Shrinkage, Flow	0.0025 cm/cm @Thickness 3.00 mm	0.0025 in/in @Thickness 0.118 in	

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	116	116	ASTM D785
Tensile Strength at Break	73.0 MPa	10600 psi	ASTM D638
Elongation at Break	6.5 %	6.5 %	ASTM D638
Flexural Strength	120 MPa	17400 psi	ASTM D790
Flexural Modulus	4.70 GPa	682 ksi	ASTM D790
Izod Impact, Notched	0.440 J/cm @Thickness 3.17 mm	0.824 ft-lb/in @Thickness 0.125 in	ASTM D256

Thermal Properties	Metric	English	Comments
CTE, linear	28.0 $\mu\text{m}/\text{m}\cdot^\circ\text{C}$	15.6 $\mu\text{in}/\text{in}\cdot^\circ\text{F}$	ASTM D696
Deflection Temperature at 1.8 MPa (264 psi)	98.0 $^\circ\text{C}$	208 $^\circ\text{F}$	ASTM D648

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+14 ohm-cm	1.00e+14 ohm-cm	ASTM D257
Dielectric Strength	≥ 21.0 kV/mm	≥ 533 kV/in	ASTM D149

Processing Properties	Metric	English	Comments
Rear Barrel Temperature	230 - 250 °C	446 - 482 °F	
Middle Barrel Temperature	240 - 260 °C	464 - 500 °F	
Front Barrel Temperature	250 - 270 °C	482 - 518 °F	
Nozzle Temperature	250 - 270 °C	482 - 518 °F	
Mold Temperature	70.0 - 90.0 °C	158 - 194 °F	actual surface temp
Drying Temperature	100 °C	212 °F	
Dry Time	10.0 - 24.0 hour	10.0 - 24.0 hour	
Back Pressure	0.490 - 1.47 MPa	71.1 - 213 psi	gage pressure

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