

Unitika L-8005

Category : Polymer , Thermoplastic , Polyarylate

Material Notes:

Chemical resistance, and excellent lubricant property Information provided by Unitika Ltd.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Unitika-L-8005.php

Physical Properties	Metric	English	Comments
Density	1.29 g/cc	0.0466 lb/in ³	ASTM D792
Water Absorption	0.15 % @Thickness 3.17 mm, Time 86400 sec	0.15 % @Thickness 0.125 in, Time 24.0 hour	ASTM D570
Linear Mold Shrinkage, Flow	0.0080 cm/cm @Thickness 3.00 mm	0.0080 in/in @Thickness 0.118 in	

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	125	125	ASTM D785
Tensile Strength at Break	64.0 MPa	9280 psi	ASTM D638
Elongation at Break	85 %	85 %	ASTM D638
Flexural Strength	99.0 MPa	14400 psi	ASTM D790
Flexural Modulus	2.50 GPa	363 ksi	ASTM D790
Izod Impact, Notched	0.780 J/cm @Thickness 3.17 mm	1.46 ft-lb/in @Thickness 0.125 in	ASTM D256

Thermal Properties	Metric	English	Comments
CTE, linear	62.0 $\mu\text{m}/\text{m}\cdot^{\circ}\text{C}$	34.4 $\mu\text{in}/\text{in}\cdot^{\circ}\text{F}$	ASTM D696
Deflection Temperature at 1.8 MPa (264 psi)	110 $^{\circ}\text{C}$	230 $^{\circ}\text{F}$	ASTM D648

Electrical Properties	Metric	English	Comments
Volume Resistivity	2.00e+14 ohm-cm	2.00e+14 ohm-cm	ASTM D257
Dielectric Constant	3.0 @Frequency 1.00e+6 Hz	3.0 @Frequency 1.00e+6 Hz	ASTM D150

Dielectric Strength Electrical Properties	40.2 kV/mm Metric	1020 kV/in English	ASTM D149 Comments
Dissipation Factor	0.015 @Frequency 1.00e+6 Hz	0.015 @Frequency 1.00e+6 Hz	ASTM D150
Arc Resistance	120 sec	120 sec	ASTM D495

Processing Properties	Metric	English	Comments
Rear Barrel Temperature	250 - 270 °C	482 - 518 °F	
Middle Barrel Temperature	260 - 280 °C	500 - 536 °F	
Front Barrel Temperature	270 - 290 °C	518 - 554 °F	
Nozzle Temperature	270 - 290 °C	518 - 554 °F	
Mold Temperature	70.0 - 90.0 °C	158 - 194 °F	actual surface temp
Drying Temperature	110 °C	230 °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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