

Unitika LM-8503-10

Category : Polymer , Thermoplastic , Polyarylate

Material Notes:

Chemical resistance, and excellent lubricant propertyInformation provided by Unitika Ltd.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Unitika-LM-8503-10.php

Physical Properties	Metric	English	Comments
Density	1.38 g/cc	0.0499 lb/in ³	ASTM D792
Water Absorption	0.13 %	0.13 %	ASTM D570
	@Thickness 3.17 mm, Time 86400 sec	@Thickness 0.125 in, Time 24.0 hour	
Linear Mold Shrinkage, Flow	0.0037 cm/cm	0.0037 in/in	
	@Thickness 3.00 mm	@Thickness 0.118 in	

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	123	123	ASTM D785
Tensile Strength at Break	69.0 MPa	10000 psi	ASTM D638
Elongation at Break	9.0 %	9.0 %	ASTM D638
Flexural Strength	109 MPa	15800 psi	ASTM D790
Flexural Modulus	3.40 GPa	493 ksi	ASTM D790
Compressive Strength	86.0 MPa	12500 psi	ASTM D695
Izod Impact, Notched	0.470 J/cm	0.881 ft-lb/in	ASTM D256
	@Thickness 3.17 mm	@Thickness 0.125 in	

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	110 °C	230 °F	ASTM D648

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 Processing Properties	250 - 270 °C Metric	482 - 518 °F English	Comments
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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