

Unitika U-100 Engineering Plastic

Category : Polymer , Thermoplastic , Polyarylate

Material Notes:

CAS No: 26590-50-1 Information provided by Unitika Ltd.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Unitika-U-100-Engineering-Plastic.php

Physical Properties	Metric	English	Comments
Density	1.21 g/cc	0.0437 lb/in ³	ASTM D792
Water Absorption	0.26 %	0.26 %	ASTM D570
	@Thickness 3.17 mm, Time 86400 sec	@Thickness 0.125 in, Time 24.0 hour	
Linear Mold Shrinkage, Flow	0.0080 cm/cm	0.0080 in/in	
	@Thickness 3.00 mm	@Thickness 0.118 in	

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	125	125	ASTM D785
Tensile Strength at Break	69.0 MPa	10000 psi	ASTM D638
Elongation at Break	60 %	60 %	ASTM D638
Flexural Strength	84.0 MPa	12200 psi	ASTM D790
Flexural Modulus	2.10 GPa	305 ksi	ASTM D790
Compressive Yield Strength	84.0 MPa	12200 psi	ASTM D695
Izod Impact, Notched	2.25 J/cm	4.22 ft-lb/in	ASTM D256
	@Thickness 3.17 mm	@Thickness 0.125 in	

Thermal Properties	Metric	English	Comments
CTE, linear	61.0 µm/m-°C	33.9 µin/in-°F	ASTM D696
Deflection Temperature at 1.8 MPa (264 psi)	175 °C	347 °F	ASTM D648

Optical Properties	Metric	English	Comments
Transmission, Visible	87 %	87 %	ASTM D1003
	@Thickness 3.00 mm	@Thickness 0.118 in	

Electrical Properties	Metric	English	Comments
Volume Resistivity	2.00e+14 ohm-cm	2.00e+14 ohm-cm	ASTM D257
Dielectric Constant	3.0	3.0	ASTM D150
	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	
Dielectric Strength	39.0 kV/mm	991 kV/in	ASTM D149
Arc Resistance	130 sec	130 sec	ASTM D495
Comparative Tracking Index	220 V	220 V	

Processing Properties	Metric	English	Comments
Rear Barrel Temperature	310 - 330 °C	590 - 626 °F	
Middle Barrel Temperature	340 - 360 °C	644 - 680 °F	
Front Barrel Temperature	350 - 370 °C	662 - 698 °F	
Nozzle Temperature	350 - 370 °C	662 - 698 °F	
Mold Temperature	120 - 140 °C	248 - 284 °F	actual surface temp
Drying Temperature	140 °C	284 °F	
Dry Time	6.00 - 24.0 hour	6.00 - 24.0 hour	
Back Pressure	0.490 - 1.47 MPa	71.1 - 213 psi	gage pressure

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