

Unitika U-8000

Category : Polymer , Thermoplastic , Polyarylate

Material Notes:

U series resins are polymer alloys that are improved in resistance to oils and chemicals, the shortcoming of amorphous resins. They are transparent and have a greater moisture blocking property than other resins having similar structures. They are also suitable for blow molding. Characteristics: Transparent, resistant to chemicals, especially to oils, alcohols and others Weather Resistance Blended into PET resins for improvement in heat resistance. Information provided by Unitika Ltd.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Unitika-U-8000.php

Physical Properties	Metric	English	Comments
Density	1.26 g/cc	0.0455 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	87.0 MPa	12600 psi	ASTM D638
Elongation at Break	105 %	105 %	ASTM D638
Flexural Strength	103 MPa	14900 psi	ASTM D790
Flexural Modulus	2.70 GPa	392 ksi	ASTM D790
Compressive Strength	86.0 MPa	12500 psi	ASTM D695
Izod Impact, Notched	1.08 J/cm @Thickness 3.17 mm	2.02 ft-lb/in @Thickness 0.125 in	ASTM D256

Thermal Properties	Metric	English	Comments
CTE, linear	62.0 µm/m-°C	34.4 µin/in-°F	ASTM D696
Deflection Temperature at 1.8 MPa (264 psi)	110 °C	230 °F	ASTM D648

Electrical Properties	Metric	English	Comments
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Volume Resistivity Electrical Properties	2.00e+14 ohm-cm Metric	2.00e+14 ohm-cm English	ASTM D257 Comments
Dielectric Constant	3.0 @Frequency 1.00e+6 Hz	3.0 @Frequency 1.00e+6 Hz	ASTM D150
Dielectric Strength	44.1 kV/mm	1120 kV/in	ASTM D149
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
Comparative Tracking Index	232 V	232 V	

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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