

Unitika U-8400H

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-8400H.php

Physical Properties	Metric	English	Comments
Density	1.28 g/cc	0.0462 lb/in ³	ASTM D792
Water Absorption	0.12 % @Thickness 3.17 mm, Time 86400 sec	0.12 % @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	120	120	ASTM D785
Tensile Strength at Break	88.0 MPa	12800 psi	ASTM D638
Elongation at Break	170 %	170 %	ASTM D638
Flexural Strength	95.0 MPa	13800 psi	ASTM D790
Flexural Modulus	2.50 GPa	363 ksi	ASTM D790
Compressive Strength	80.0 MPa	11600 psi	ASTM D695
Izod Impact, Notched	0.690 J/cm @Thickness 3.17 mm	1.29 ft-lb/in @Thickness 0.125 in	ASTM D256

Thermal Properties	Metric	English	Comments
CTE, linear	64.0 µm/m-°C	35.6 µin/in-°F	ASTM D696
Deflection Temperature at 1.8 MPa (264 psi)	95.0 °C	203 °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	3.0	ASTM D150
	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	
Dielectric Strength	30.0 kV/mm	762 kV/in	ASTM D149
Dissipation Factor	0.010	0.010	ASTM D150
	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	
Arc Resistance	120 sec	120 sec	ASTM D495

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	50.0 - 70.0 °C	122 - 158 °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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