

Unitika FUN-8000

Category : Polymer , Thermoplastic , Polyarylate

Material Notes:

Characteristics: High impact strength High chemical resistance Transparency as high as polycarbonate Information provided by Unitika Ltd.

Order this product through the following link:

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

Physical Properties	Metric	English	Comments
Density	1.22 g/cc	0.0441 lb/in ³	ASTM D792
Water Absorption	0.15 %	0.15 %	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
Tensile Strength at Break	66.0 MPa	9570 psi	ASTM D638
Elongation at Break	78 %	78 %	ASTM D638
Flexural Strength	81.0 MPa	11700 psi	ASTM D790
Flexural Modulus	2.10 GPa	305 ksi	ASTM D790
Izod Impact, Notched	4.50 J/cm	8.43 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)	123 °C	253 °F	ASTM D648

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

Processing Properties	Metric	English	Comments
Rear Barrel Temperature	260 - 280 °C	500 - 536 °F	
Middle Barrel Temperature	270 - 290 °C	518 - 554 °F	

Front Barrel Temperature Processing Properties	280 - 300 °C Metric	536 - 572 °F English	Comments
Nozzle Temperature	280 - 300 °C	536 - 572 °F	
Mold Temperature	70.0 - 90.0 °C	158 - 194 °F	actual surface temp
Drying Temperature	120 °C	248 °F	
Dry Time	8.00 - 24.0 hour	8.00 - 24.0 hour	
Back Pressure	0.490 - 1.47 MPa	71.1 - 213 psi	gage pressure

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