

Unitika PT-3020

Category : Polymer , Thermoplastic , Polyarylate

Material Notes:

Characteristics: Dimensional accuracy (planarity) Heat resistance Creep resistance and elasticity Rigidity
Information provided by Unitika Ltd.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Unitika-PT-3020.php

Physical Properties	Metric	English	Comments
Density	1.36 g/cc	0.0491 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	0.0030 - 0.0040 cm/cm @Thickness 3.00 mm	0.0030 - 0.0040 in/in @Thickness 0.118 in	
Linear Mold Shrinkage, Transverse	0.0040 - 0.0050 cm/cm @Thickness 3.00 mm	0.0040 - 0.0050 in/in @Thickness 0.118 in	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	67.0 MPa	9720 psi	ASTM D638
Elongation at Break	6.0 %	6.0 %	ASTM D638
Flexural Strength	111 MPa	16100 psi	ASTM D790
Flexural Modulus	3.80 GPa	551 ksi	ASTM D790

Thermal Properties	Metric	English	Comments
CTE, linear	35.0 - 40.0 $\mu\text{m}/\text{m}^{\circ}\text{C}$	19.4 - 22.2 $\mu\text{in}/\text{in}^{\circ}\text{F}$	ASTM D696
Deflection Temperature at 1.8 MPa (264 psi)	165 $^{\circ}\text{C}$	329 $^{\circ}\text{F}$	ASTM D648

Processing Properties	Metric	English	Comments
Rear Barrel Temperature	290 - 310 $^{\circ}\text{C}$	554 - 590 $^{\circ}\text{F}$	
Middle Barrel Temperature	320 - 340 $^{\circ}\text{C}$	608 - 644 $^{\circ}\text{F}$	
Front Barrel Temperature	330 - 350 $^{\circ}\text{C}$	626 - 662 $^{\circ}\text{F}$	
Nozzle Temperature	330 - 350 $^{\circ}\text{C}$	626 - 662 $^{\circ}\text{F}$	

Processing Properties	Metric	English	Comments
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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