

Unitika C300VN

Category : Polymer , Thermoplastic , Polyarylate

Material Notes:

Characteristics: Flame resistant, transparent (flame resistance: UL94 V0, 0.8 mm) High flow Information provided by Unitika Ltd.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Unitika-C300VN.php

Physical Properties	Metric	English	Comments
Density	1.29 g/cc	0.0466 lb/in ³	ASTM D792
Water Absorption	0.24 % @Thickness 3.17 mm, Time 86400 sec	0.24 % @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
Tensile Strength at Break	75.0 MPa	10900 psi	ASTM D638
Elongation at Break	40 %	40 %	ASTM D638
Flexural Strength	95.0 MPa	13800 psi	ASTM D790
Flexural Modulus	2.50 GPa	363 ksi	ASTM D790
Izod Impact, Notched	0.650 J/cm @Thickness 3.17 mm	1.22 ft-lb/in @Thickness 0.125 in	ASTM D256

Thermal Properties	Metric	English	Comments
CTE, linear	65.0 $\mu\text{m}/\text{m}\cdot^\circ\text{C}$	36.1 $\mu\text{in}/\text{in}\cdot^\circ\text{F}$	ASTM D696
Deflection Temperature at 1.8 MPa (264 psi)	155 $^\circ\text{C}$	311 $^\circ\text{F}$	ASTM D648

Electrical Properties	Metric	English	Comments
Volume Resistivity	2.00e+14 ohm-cm	2.00e+14 ohm-cm	ASTM D257
Dielectric Constant	3.0 @Frequency 1.00e+6 Hz	3.0 @Frequency 1.00e+6 Hz	ASTM D150
Dielectric Strength	30.0 kV/mm	762 kV/in	ASTM D149

Electrical Properties	0.010 Metric	0.010 English	Comments
Dissipation Factor	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	ASTM D150
Arc Resistance	125 sec	125 sec	ASTM D495
Comparative Tracking Index	175 V	175 V	

Processing Properties	Metric	English	Comments
Rear Barrel Temperature	260 - 280 °C	500 - 536 °F	
Middle Barrel Temperature	280 - 300 °C	536 - 572 °F	
Front Barrel Temperature	300 - 320 °C	572 - 608 °F	
Nozzle Temperature	300 - 320 °C	572 - 608 °F	
Mold Temperature	100 - 120 °C	212 - 248 °F	actual surface temp
Drying Temperature	130 °C	266 °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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