

Eurotec® Tecotek® PC40 NL VB02 PC, unfilled, UV stabilized, high impact, natural

Category : Polymer , Thermoplastic , Polycarbonate (PC) , Polycarbonate, Impact Modified , Polycarbonate, UV Stabilized

Material Notes:

Information provided by Eurotec®

Order this product through the following link:

http://www.lookpolymers.com/polymer_Eurotec-Tecotek-PC40-NL-VB02-PC-unfilled-UV-stabilized-high-impact-natural.php

Physical Properties	Metric	English	Comments
Density	1.20 g/cc	0.0434 lb/in³	ISO 1183
Moisture Absorption	0.200 % @Temperature 23.0 °C	0.200 % @Temperature 73.4 °F	50% RH; ISO 960
Linear Mold Shrinkage, Flow	0.010 cm/cm	0.010 in/in	Eurotec
Linear Mold Shrinkage, Transverse	0.010 cm/cm	0.010 in/in	Eurotec

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	55.0 MPa	7980 psi	ISO 527
Elongation at Break	>= 50 %	>= 50 %	ISO 527
Tensile Modulus	2.25 GPa	326 ksi	ISO 527
Izod Impact, Notched (ISO)	25.0 kJ/m² @Temperature -30.0 °C	11.9 ft-lb/in² @Temperature -22.0 °F	ISO 180/1A
	55.0 kJ/m² @Temperature 23.0 °C	26.2 ft-lb/in² @Temperature 73.4 °F	ISO 180/1A
Izod Impact, Unnotched (ISO)	NB @Temperature 23.0 °C	NB @Temperature 73.4 °F	ISO 180/1U
	NB @Temperature -30.0 °C	NB @Temperature -22.0 °F	ISO 180/1U

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	110 °C	230 °F	ISO 75
Deflection Temperature at 1.8 MPa (264 psi)	90.0 °C	194 °F	ISO 75
	125 °C	257 °F	

Vicat Softening Point Thermal Properties	Metric @Load 5.10 kg	English @Load 11.2 lb	ISO 306 Comments
Flammability, UL94	HB @Thickness 0.750 mm	HB @Thickness 0.0295 in	
	HB @Thickness 1.60 mm	HB @Thickness 0.0630 in	

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+15 ohm-cm	1.00e+15 ohm-cm	IEC 60093
Surface Resistance	1.00e+15 ohm	1.00e+15 ohm	IEC 60093

Processing Properties	Metric	English	Comments
Processing Temperature	250 - 270 °C	482 - 518 °F	
Feed Temperature	60.0 - 80.0 °C	140 - 176 °F	Throat
Mold Temperature	60.0 - 80.0 °C	140 - 176 °F	
Drying Temperature	100 °C	212 °F	
Dry Time	3.00 - 4.00 hour	3.00 - 4.00 hour	
Moisture Content	<= 0.10 %	<= 0.10 %	ISO 960
Hold Pressure	50.0 - 100 MPa	7250 - 14500 psi	

Descriptive Properties	Value	Comments
Back Pressure	Low	
Injection Speed	Medium - Fast	

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