

Eurotec® Tecotek® PC43 GR20 BK002 PC, 20% glass fiber reinforced, black

Category : Polymer , Thermoplastic , Polycarbonate (PC) , Polycarbonate, 20% Glass Filled

Material Notes:

Information provided by Eurotec®

Order this product through the following link:

http://www.lookpolymers.com/polymer_Eurotec-Tecotek-PC43-GR20-BK002-PC-20-glass-fiber-reinforced-black.php

Physical Properties	Metric	English	Comments
Density	1.33 g/cc	0.0480 lb/in ³	ISO 1183
Moisture Absorption	0.200 % @Temperature 23.0 °C	0.200 % @Temperature 73.4 °F	50% RH; ISO 960
Linear Mold Shrinkage, Flow	0.0050 cm/cm	0.0050 in/in	Eurotec
Linear Mold Shrinkage, Transverse	0.0050 cm/cm	0.0050 in/in	Eurotec

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	110 MPa	16000 psi	ISO 527
Elongation at Break	2.5 %	2.5 %	ISO 527
Tensile Modulus	6.50 GPa	943 ksi	ISO 527
Izod Impact, Notched (ISO)	11.0 kJ/m ² @Temperature -30.0 °C	5.23 ft-lb/in ² @Temperature -22.0 °F	ISO 180/1A
	13.0 kJ/m ² @Temperature 23.0 °C	6.19 ft-lb/in ² @Temperature 73.4 °F	ISO 180/1A

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	145 °C	293 °F	ISO 75
Deflection Temperature at 1.8 MPa (264 psi)	140 °C	284 °F	ISO 75
Vicat Softening Point	145 °C @Load 5.10 kg	293 °F @Load 11.2 lb	ISO 306
Glow Wire Test	850 °C @Thickness 2.00 mm	1560 °F @Thickness 0.0787 in	GWFI; IEC 60695
	875 °C	1610 °F	GWIT; IEC 60695

Thermal Properties	@Thickness 2.00 mm Metric	@Thickness 0.0787 in English	Comments
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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
Comparative Tracking Index	175 V	175 V	Solution A; IEC 60112

Processing Properties	Metric	English	Comments
Processing Temperature	270 - 310 °C	518 - 590 °F	
Feed Temperature	60.0 - 80.0 °C	140 - 176 °F	Throat
Mold Temperature	80.0 - 100 °C	176 - 212 °F	
Drying Temperature	120 °C	248 °F	
Dry Time	3.00 - 4.00 hour	3.00 - 4.00 hour	
Moisture Content	<= 0.10 %	<= 0.10 %	ISO 960
Hold Pressure	60.0 - 120 MPa	8700 - 17400 psi	

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

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