

Eurotec® Tecotek® PC30 NL RX PC, unfilled, improved flow & low temperature impact, natural

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

Material Notes:

Information provided by Eurotec®

Order this product through the following link:

http://www.lookpolymers.com/polymer_Eurotec-Tecotek-PC30-NL-RX-PC-unfilled-improved-flow-low-temperature-impact-natural.php

Physical Properties	Metric	English	Comments
Density	1.19 g/cc	0.0430 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	0.0060 cm/cm	0.0060 in/in	Eurotec
Linear Mold Shrinkage, Transverse	0.0060 cm/cm	0.0060 in/in	Eurotec
Melt Flow	20 g/10 min @Load 1.20 kg, Temperature 300 °C	20 g/10 min @Load 2.65 lb, Temperature 572 °F	ISO 1133

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	65.0 MPa	9430 psi	ISO 527
Elongation at Break	>= 50 %	>= 50 %	ISO 527
Tensile Modulus	2.25 GPa	326 ksi	ISO 527
Izod Impact, Notched (ISO)	40.0 kJ/m ² @Temperature -30.0 °C	19.0 ft-lb/in ² @Temperature -22.0 °F	ISO 180/1A
	70.0 kJ/m ² @Temperature 23.0 °C	33.3 ft-lb/in ² @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)	140 °C	284 °F	ISO 75

Thermal Properties	Metric	English	Comments
Continuation Temperature at 1.8 MPa (264 psi)	125 °C	257 °F	ISO 178
Vicat Softening Point	145 °C @Load 5.10 kg	293 °F @Load 11.2 lb	ISO 306
Flammability, UL94	HB @Thickness 0.750 mm	HB @Thickness 0.0295 in	
	HB @Thickness 1.60 mm	HB @Thickness 0.0630 in	
Glow Wire Test	850 °C @Thickness 2.00 mm	1560 °F @Thickness 0.0787 in	GWFI; IEC 60695
	875 °C @Thickness 2.00 mm	1610 °F @Thickness 0.0787 in	GWIT; IEC 60695

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	260 - 300 °C	500 - 572 °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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