

Clariant Renol PCSP0006WT-181 Polycarbonate, Laser Markable

Category : Polymer , Thermoplastic , Polycarbonate (PC)

Material Notes:

Data provided by Clariant Masterbatches

Order this product through the following link:

http://www.lookpolymers.com/polymer_Clariant-Renol-PCSP0006WT-181-Polycarbonate-Laser-Markable.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.15 g/cc	1.15 g/cc	ASTM D792
Linear Mold Shrinkage, Flow	0.0030 cm/cm	0.0030 in/in	ASTM D955

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	62.1 MPa	9000 psi	ASTM D638
Flexural Yield Strength	89.6 MPa	13000 psi	ASTM D790
Flexural Modulus	2.59 GPa	375 ksi	ASTM D790
Izod Impact, Notched	7.47 J/cm @Temperature 22.8 °C	14.0 ft-lb/in @Temperature 73.0 °F	ASTM D256

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	132 °C	270 °F	ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	127 °C	260 °F	ASTM D648

Processing Properties	Metric	English	Comments
Melt Temperature	271 - 299 °C	520 - 570 °F	
Mold Temperature	65.6 - 79.4 °C	150 - 175 °F	
Dry Time	2 - 4 hour @Temperature 104 °C	2 - 4 hour @Temperature 220 °F	to ensure moisture content is less than 0.05%
Injection Pressure	4.96 - 8.27 MPa	720 - 1200 psi	Secondary
	8.27 - 13.8 MPa	1200 - 2000 psi	Initial
Back Pressure	0.345 - 1.72 MPa	50.0 - 250 psi	
Shot Size	30 - 80 %	30 - 80 %	

Screw Speed Processing Properties	20 - 100 rpm Metric	20 - 100 rpm English	Comments
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