

Clariant Renol PBTG30-L Polybutylene Terephthalate, 30% Glass Reinforced

Category : Polymer , Thermoplastic , Polyester, TP , Polybutylene Terephthalate (PBT) , Polybutylene Terephthalate (PBT), 30% Glass Fiber Filled

Material Notes:

Data provided by Clariant Masterbatches

Order this product through the following link:

http://www.lookpolymers.com/polymer_Clariant-Renol-PBTG30-L-Polybutylene-Terephthalate-30-Glass-Reinforced.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.53 g/cc	1.53 g/cc	ASTM D792
Filler Content	30 %	30 %	ASTM D2584
Linear Mold Shrinkage, Flow	0.0060 cm/cm	0.0060 in/in	ASTM D955

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	100 MPa	14500 psi	ASTM D648
Elongation at Break	2.5 %	2.5 %	ASTM D638
Flexural Yield Strength	165 MPa	24000 psi	ASTM D790
Flexural Modulus	6.89 GPa	1000 ksi	ASTM D790
Izod Impact, Notched	0.641 J/cm @Temperature 22.8 °C	1.20 ft-lb/in @Temperature 73.0 °F	ASTM D256

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	221 °C	430 °F	ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	204 °C	400 °F	ASTM D648

Processing Properties	Metric	English	Comments
Melt Temperature	243 - 271 °C	470 - 520 °F	
Mold Temperature	79.4 - 107 °C	175 - 225 °F	
Dry Time	2 - 4 hour @Temperature 113 °C	2 - 4 hour @Temperature 235 °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 Processing Properties	0.000 - 0.345 MPa Metric	0.000 - 50.0 psi English	Comments
Shot Size	30 - 80 %	30 - 80 %	
Screw Speed	20 - 100 rpm	20 - 100 rpm	

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