

Clariant Renol PBT1700G30BK Polybutylene Terephthalate, 30% Glass Reinforced, Flame Retardant

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

Material Notes:

Data provided by Clariant Masterbatches

Order this product through the following link:

http://www.lookpolymers.com/polymer_Clariant-Renol-PBT1700G30BK-Polybutylene-Terephthalate-30-Glass-Reinforced-Flame-Retardant.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.66 g/cc	1.66 g/cc	ASTM D792
Filler Content	30 %	30 %	ASTM D2584
Linear Mold Shrinkage, Flow	0.0030 - 0.0050 cm/cm	0.0030 - 0.0050 in/in	ASTM D955

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	121 MPa	17500 psi	ASTM D648
Elongation at Break	3.0 %	3.0 %	ASTM D638
Elongation at Yield	3.0 %	3.0 %	ASTM D638
Flexural Yield Strength	165 MPa	24000 psi	ASTM D790
Flexural Modulus	8.96 GPa	1300 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)	213 °C	415 °F	ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	199 °C	390 °F	ASTM D648
Flammability, UL94	V-0	V-0	1/32, 1/16, 1/8, 1/4

Processing Properties	Metric	English	Comments
Rear Barrel Temperature	221 - 249 °C	430 - 480 °F	
Middle Barrel Temperature	227 - 254 °C	440 - 490 °F	
Front Barrel Temperature	232 - 260 °C	450 - 500 °F	

Processing Properties	Metric	English	Comments
Nozzle Temperature	238 - 266 °C	460 - 510 °F	
Melt Temperature	232 - 260 °C	450 - 500 °F	
Mold Temperature	82.2 - 121 °C	180 - 250 °F	
Dry Time	<= 4 hour	<= 4 hour	to ensure moisture content is less than 0.02%
Injection Pressure	4.96 - 8.27 MPa	720 - 1200 psi	Secondary
	8.27 - 13.8 MPa	1200 - 2000 psi	Initial
Back Pressure	0.345 MPa	50.0 psi	
Shot Size	30 - 80 %	30 - 80 %	
Screw Speed	25 - 100 rpm	25 - 100 rpm	

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