

Clariant Renol PBT1700 Polybutylene Terephthalate, Flame Retardant

Category : Polymer , Thermoplastic , Polyester, TP , Polybutylene Terephthalate (PBT) , 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-PBT1700-Polybutylene-Terephthalate-Flame-Retardant.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.40 g/cc	1.40 g/cc	ASTM D792
Linear Mold Shrinkage, Flow	0.016 - 0.020 cm/cm	0.016 - 0.020 in/in	ASTM D955

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	53.1 MPa	7700 psi	ASTM D638
Flexural Yield Strength	68.9 MPa	10000 psi	ASTM D790
Flexural Modulus	2.59 GPa	375 ksi	ASTM D790
Izod Impact, Notched	0.481 J/cm @Temperature 22.8 °C	0.900 ft-lb/in @Temperature 73.0 °F	ASTM D256

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	149 °C	300 °F	ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	71.1 °C	160 °F	ASTM D648
Flammability, UL94	V-0	V-0	1/32, 1/16, 1/8, 1/4

Processing Properties	Metric	English	Comments
Melt Temperature	232 - 254 °C	450 - 490 °F	
Mold Temperature	65.6 - 93.3 °C	150 - 200 °F	
Dry Time	2 - 4 hour @Temperature 121 °C	2 - 4 hour @Temperature 250 °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 Processing Properties	30 - 80 % Metric	30 - 80 % English	Comments
Screw Speed	20 - 100 rpm	20 - 100 rpm	

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