

Clariant Renol PBT1100TF10 Polybutylene Terephthalate, PTFE Lubricated

Category : Polymer , Thermoplastic , Polyester, TP , Polybutylene Terephthalate (PBT) , Polybutylene Terephthalate (PBT), PTFE Filled

Material Notes:

Data provided by Clariant Masterbatches

Order this product through the following link:

http://www.lookpolymers.com/polymer_Clariant-Renol-PBT1100TF10-Polybutylene-Terephthalate-PTFE-Lubricated.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.37 g/cc	1.37 g/cc	ASTM D792
Linear Mold Shrinkage, Flow	0.020 cm/cm	0.020 in/in	ASTM D955

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	53.1 MPa	7700 psi	ASTM D638
Elongation at Break	>= 10 %	>= 10 %	ASTM D638
Flexural Yield Strength	86.2 MPa	12500 psi	ASTM D790
Flexural Modulus	2.48 GPa	360 ksi	ASTM D790
Izod Impact, Notched	0.374 J/cm @Temperature 22.8 °C	0.700 ft-lb/in @Temperature 73.0 °F	ASTM D256

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	55.0 °C	131 °F	ASTM D648

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	30 - 80 %	30 - 80 %	
Screw Speed	20 - 100 rpm	20 - 100 rpm	

Processing Properties	Metric	English	Comments
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