

Clariant Renol PBT1100 Black Polybutylene Terephthalate, General Purpose

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

Material Notes:

Data provided by Clariant Masterbatches

Order this product through the following link:

http://www.lookpolymers.com/polymer_Clariant-Renol-PBT1100-Black-Polybutylene-Terephthalate-General-Purpose.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.31 g/cc	1.31 g/cc	ASTM D792
Water Absorption	0.080 %	0.080 %	ASTM D570
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage	0.018 cm/cm	0.018 in/in	ASTM D955

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	58.6 MPa	8500 psi	ASTM D638
Elongation at Break	50 %	50 %	ASTM D638
Flexural Yield Strength	75.8 MPa	11000 psi	ASTM D790
Flexural Modulus	2.28 GPa	330 ksi	ASTM D790
Izod Impact, Notched	0.534 J/cm	1.00 ft-lb/in	ASTM D256
	@Temperature 22.8 °C	@Temperature 73.0 °F	

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	154 °C	310 °F	ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	67.2 °C	153 °F	ASTM D648
Flammability, UL94	HB	HB	1/32 - 1/4 in

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	
Nozzle Temperature	238 - 266 °C	460 - 510 °F	

Melt Temperature Processing Properties	232 - 246 °C Metric	450 - 475 °F English	Comments
Mold Temperature	65.6 - 82.2 °C	150 - 180 °F	
Injection Pressure	4.96 - 8.27 MPa	720 - 1200 psi	Secondary
	8.27 - 13.8 MPa	1200 - 2000 psi	Initial
Back Pressure	0.345 - 0.689 MPa	50.0 - 100 psi	
Shot Size	30 - 80 %	30 - 80 %	
Screw Speed	25 - 80 rpm	25 - 80 rpm	

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