

## Clariant Renol PBT1100S Polybutylene Terephthalate, Silicone Lubricated

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-PBT1100S-Polybutylene-Terephthalate-Silicone-Lubricated.php](http://www.lookpolymers.com/polymer_Clariant-Renol-PBT1100S-Polybutylene-Terephthalate-Silicone-Lubricated.php)

Physical Properties	Metric	English	Comments
Specific Gravity	1.31 g/cc	1.31 g/cc	ASTM D792
Water Absorption	0.080 % @Time 86400 sec	0.080 % @Time 24.0 hour	ASTM D570

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	55.2 MPa	8000 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 @Temperature 22.8 °C	1.00 ft-lb/in @Temperature 73.0 °F	ASTM D256

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

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 71.1 °C	2 - 4 hour @Temperature 160 °F	to eliminate surface defects
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	

Processing Properties	Metric	English	Comments
Shot Size	30 - 60 %	30 - 60 %	
Screw Speed	20 - 100 rpm	20 - 100 rpm	

## Contact Songhan Plastic Technology Co.,Ltd.

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