

RTP Company RTP 1305 TFE 5 Polyphenylene Sulfide (PPS), Glass Fiber Reinforced - PTFE Lubricated

Category : Polymer , Thermoplastic , Polyphenylene Sulfide (PPS) , Polyphenylene Sulfide (PPS), PTFE/Glass-Fiber Filled

Material Notes:

Order this product through the following link:

http://www.lookpolymers.com/polymer_RTP-Company-RTP-1305-TFE-5-Polyphenylene-Sulfide-PPS-Glass-Fiber-Reinforced-PTFE-Lubricated.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.61 g/cc	1.61 g/cc	ASTM D 792
Filler Content	30 %	30 %	Primary Additive
Linear Mold Shrinkage	0.0020 cm/cm @Thickness 3.17 mm	0.0020 in/in @Thickness 0.125 in	ASTM D955

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	138 MPa	20000 psi	ASTM D 638
Elongation at Break	1.0 - 2.0 %	1.0 - 2.0 %	ASTM D 638
Tensile Modulus	11.7 GPa	1700 ksi	ASTM D 638
Flexural Strength	186 MPa	27000 psi	ASTM D 790
Flexural Modulus	11.4 GPa	1650 ksi	ASTM D 790
Izod Impact, Notched	0.801 J/cm @Thickness 3.17 mm	1.50 ft-lb/in @Thickness 0.125 in	D 256
Izod Impact, Unnotched	3.20 J/cm @Thickness 3.17 mm	6.00 ft-lb/in @Thickness 0.125 in	ASTM D4812

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	260 °C	500 °F	ASTM D 648
Flammability, UL94	V-0 @Thickness 1.59 mm	V-0 @Thickness 0.0625 in	

Processing Properties	Metric	English	Comments
Melt Temperature	307 - 329 °C	585 - 625 °F	
Mold Temperature	135 - 177 °C	275 - 350 °F	

Processing Properties	Metric	English	Comments
Drying Temperature			
Dry Time	6 hour	6 hour	
Moisture Content	0.040 %	0.040 %	
Injection Pressure	68.9 - 103 MPa	10000 - 15000 psi	

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