

RTP Company RTP 800 TFE 5 HB Acetal (POM), PTFE Lubricated - UL94 HB

Category : Polymer , Thermoplastic , Acetal (POM) , Acetal Copolymer, PTFE Filled

Material Notes:

The RTP 800 TFE Series materials are acetals containing PTFE lubricant. These products offer moldability and wear resistance.

Order this product through the following link:

http://www.lookpolymers.com/polymer_RTP-Company-RTP-800-TFE-5-HB-Acetal-POM-PTFE-Lubricated-UL94-HB.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.43 g/cc	1.43 g/cc	ASTM D 792
Filler Content	5 %	5 %	Primary Additive
Water Absorption	0.20 %	0.20 %	24 hrs @ 23°C; ASTM D 570
Linear Mold Shrinkage	0.025 - 0.035 cm/cm @Thickness 3.17 mm	0.025 - 0.035 in/in @Thickness 0.125 in	ASTM D955

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	107	107	ASTM D 785
Tensile Strength at Break	51.7 MPa	7500 psi	ASTM D 638
Elongation at Break	>= 10 %	>= 10 %	ASTM D 638
Tensile Modulus	2.48 GPa	360 ksi	ASTM D 638
Flexural Strength	75.8 MPa	11000 psi	ASTM D 790
Flexural Modulus	2.34 GPa	340 ksi	ASTM D 790
Izod Impact, Notched	0.694 J/cm @Thickness 3.17 mm	1.30 ft-lb/in @Thickness 0.125 in	D 256
Izod Impact, Unnotched	6.41 J/cm @Thickness 3.17 mm	12.0 ft-lb/in @Thickness 0.125 in	ASTM D4812

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	152 °C	305 °F	ASTM D 648
Deflection Temperature at 1.8 MPa (264 psi)	104 °C	220 °F	ASTM D 648
Flammability, UL94	HB @Thickness 1.59 mm	HB @Thickness 0.0625 in	

Electrical Properties	Metric	English	Comments
Volume Resistivity	$\geq 1.00 \times 10^{15}$ ohm-cm	$\geq 1.00 \times 10^{15}$ ohm-cm	ASTM D 257
Dielectric Strength	18.5 kV/mm	470 kV/in	Short Term; in oil; ASTM D 149
Arc Resistance	180 sec	180 sec	ASTM D 495

Processing Properties	Metric	English	Comments
Melt Temperature	182 - 218 °C	360 - 425 °F	
Mold Temperature	79.4 - 107 °C	175 - 225 °F	
Drying Temperature	121 °C	250 °F	
Dry Time	2 hour	2 hour	
Moisture Content	0.15 %	0.15 %	
Dew Point	-31.7 °C	-25.0 °F	
Injection Pressure	68.9 - 103 MPa	10000 - 15000 psi	

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