

Perstorp Compounds 136 Urea-Formaldehyde w/ cellulose filler

Category : Polymer , Thermoset , Filled/Reinforced Thermoset , Urea Formaldehyde, Molded, Cellulose Filled

Material Notes:

A UF-based injection grade designed for hidden parts like sockets, circuit breakers, clamps, switches. Information provided by Perstorp Compounds Inc.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Perstorp-Compounds-136-Urea-Formaldehyde-w-cellulose-filler.php

Physical Properties	Metric	English	Comments
Linear Mold Shrinkage	0.0050 - 0.0070 cm/cm	0.0050 - 0.0070 in/in	DIN 53 464

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	>= 55.0 MPa	>= 7980 psi	ISO 178
Flexural Strength	>= 170 MPa	>= 24700 psi	ISO 178
Charpy Impact, Notched	0.180 J/cm ²	0.857 ft-lb/in ²	ISO 179

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	>= 130 °C	>= 266 °F	ISO 175
Deflection Temperature at 8.0 MPa	>= 90.0 °C	>= 194 °F	ISO 175
Flammability, UL94	V-0	V-0	
Oxygen Index	>= 30 %	>= 30 %	ASTM D2863
Shrinkage	0.50 - 0.70 %	0.50 - 0.70 %	Post Shrinkage; DIN 53 464

Electrical Properties	Metric	English	Comments
Surface Resistance	>= 1.00e+11 ohm	>= 1.00e+11 ohm	DIN 53 482
Dielectric Constant	5.0	5.0	DIN 53 483
Comparative Tracking Index	>= 600 V	>= 600 V	IEC 112

Processing Properties	Metric	English	Comments
Front Barrel Temperature	70.0 - 85.0 °C	158 - 185 °F	Barrel Inlet Temp
Nozzle Temperature	95.0 - 115 °C	203 - 239 °F	Barrel Nozzle Temp
Mold Temperature	145 - 160 °C	293 - 320 °F	

Injection Pressure Processing Properties	5.00 - 17.0 MPa Metric	725 - 2470 psi English	Hydraulic Injection Pressure Comments
	70.0 - 150 MPa	10200 - 21800 psi	Specific Injection Pressure
Hold Pressure	30.0 - 80.0 MPa	4350 - 11600 psi	Specific Holding Pressure
Back Pressure	0.700 - 1.10 MPa	102 - 160 psi	Hydraulic backpressure
	10.0 - 14.0 MPa	1450 - 2030 psi	Specific backpressure

Descriptive Properties	Value	Comments
Glow Bar 960°C 180 sec	passes	IEC 707
Injection Speed	100-200 cm ³ /s	
Water Absorption [mg]	<200	DIN 53 495/23°C 96h

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