

## Perstorp Compounds 161 Urea-Formaldehyde w/ cellulose filler

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

### Material Notes:

Perstorp 161 compression grade has low shrinkage, low water absorption and high strength. It is suitable for circuit breakers and electrical accessories in humid environments. Information provided by Perstorp Compounds Inc.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Perstorp-Compounds-161-Urea-Formaldehyde-w-cellulose-filler.php](http://www.lookpolymers.com/polymer_Perstorp-Compounds-161-Urea-Formaldehyde-w-cellulose-filler.php)

Physical Properties	Metric	English	Comments
Linear Mold Shrinkage	0.0060 - 0.0080 cm/cm	0.0060 - 0.0080 in/in	DIN 53 464

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	>= 55.0 MPa	>= 7980 psi	ISO 178
Flexural Strength	>= 110 MPa	>= 16000 psi	ISO 178
Charpy Impact, Notched	>= 0.160 J/cm <sup>2</sup>	>= 0.761 ft-lb/in <sup>2</sup>	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	0.70 - 1.0 %	0.70 - 1.0 %	Post Shrinkage; DIN 53 464

Electrical Properties	Metric	English	Comments
Volume Resistivity	>= 1.00e+13 ohm-cm	>= 1.00e+13 ohm-cm	DIN 53 483
Surface Resistance	>= 1.00e+11 ohm	>= 1.00e+11 ohm	DIN 53 482
Dielectric Constant	5.0	5.0	DIN 53 483
Dissipation Factor	<= 0.10 @Frequency 1000 Hz	<= 0.10 @Frequency 1000 Hz	tan delta; DIN 53 483
Comparative Tracking Index	>= 600 V	>= 600 V	IEC 112

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

## Contact Songhan Plastic Technology Co.,Ltd.

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