

Westlake Plastics Zelux® CN-SS Polycarbonate (conductive)

Category : Polymer , Thermoplastic , Polycarbonate (PC) , Polycarbonate, Stainless Steel Fiber

Material Notes:

CN-SS is filled with small non-sloughing stainless steel fibers. Has high flexural strength and good thermal stability to 275F. The CN-SS material has excellent impact strength. Information provided by Westlake Plastics.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Westlake-Plastics-Zelux-CN-SS-Polycarbonate-conductive.php

Physical Properties	Metric	English	Comments
Density	1.29 g/cc	0.0466 lb/in ³	ASTM D792
Water Absorption	0.13 %	0.13 %	ASTM D570; 24 hrs.

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	51.7 MPa	7500 psi	ASTM D638
Elongation at Break	15 %	15 %	ASTM D638
Flexural Strength	82.7 MPa	12000 psi	ASTM D790
Flexural Modulus	2.41 GPa	350 ksi	ASTM D790
Izod Impact, Notched	0.961 J/cm	1.80 ft-lb/in	ASTM D256
Izod Impact, Unnotched	16.0 J/cm	30.0 ft-lb/in	ASTM D256

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	141 °C	285 °F	ASTM D648
Flammability, UL94	V-0 @Thickness 1.65 mm	V-0 @Thickness 0.0650 in	

Electrical Properties	Metric	English	Comments
Volume Resistivity	100 - 1.00e+6 ohm-cm	100 - 1.00e+6 ohm-cm	Dry; ASTM D257
Surface Resistance	100 - 1.00e+6 ohm	100 - 1.00e+6 ohm	Dry; ASTM D257
Static Decay	<= 0.10 sec	<= 0.10 sec	15% RH; MIL-B-81705-B

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