

Zelux® CN-SS

Polycarbonate
Westlake Plastics Company

Message:

ZELUX® CN-SS (Conductive Polycarbonate). CN-SS is filled with small non-sloughing stainless steel fibers. CN-SS has high flexural strength and good thermal stability to 275° F. CN-SS has excellent impact strength.

- Advantages:
- Consistent resistivity values
 - Low outgassing
 - UL 94 V-0 flame rating
 - High strength
 - Easily machined
 - Durable
- Applications:
- Semiconductor/electronic components
 - Cassette housings
 - Telecommunications hardware
 - Explosives handling equipment

General Information			
Filler / Reinforcement	Stainless Steel Fiber		
Features	Durable		
	Good Thermal Stability		
	High Impact Resistance		
	High Strength		
	Low to No Outgassing		
	Machinable		
	Non-Sloughing		
Uses	Semi Conductive		
	Electrical Parts		
	Electrical/Electronic Applications		
	Housings		
Appearance	Telecommunications		
	Dark Grey		
Forms	Film		
	Rod		
	Sheet		
Processing Method	Thermoforming		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.29	g/cm ³	ASTM D792
Water Absorption (24 hr)	0.13	%	ASTM D570

Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield)	51.7	MPa	ASTM D638
Tensile Elongation (Break)	15	%	ASTM D638
Flexural Modulus	2410	MPa	ASTM D790
Flexural Strength	82.7	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	96	J/m	ASTM D256
Unnotched Izod Impact	1600	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	141	°C	ASTM D648
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	1.0E+2 to 1.0E+6	ohms	ASTM D257
Volume Resistivity	1.0E+2 to 1.0E+6	ohms·cm	ASTM D257
Static Decay	< 0.1	sec	MIL B-81705
Flammability	Nominal Value	Unit	Test Method
Flame Rating (1.65 mm)	V-0		UL 94

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