

Zelux® SD-P

Polycarbonate
Westlake Plastics Company

Message:

ZELUX® SD-P (Static-dissipative Polycarbonate) Carbon-powder-filled material with resistivity levels in the 1E7 - 1E11 range with high flexural strength and good thermal stability to 270° F. UL94 V-O rated at 0.030 in, this material is thermoformable in 0.010" - 0.060" gauges, and has low outgassing properties.

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	Carbon Powder		
Additive	Antistatic		
Features	Antistatic		
	Durable		
	Good Thermal Stability		
	High Strength		
	Low to No Outgassing		
	Machinable		
	Semi Conductive		
Uses	Electrical Parts		
	Electrical/Electronic Applications		
	Housings		
	Telecommunications		
Appearance	Black		
Forms	Film		
	Rod		
	Sheet		
Processing Method	Thermoforming		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.33	g/cm ³	ASTM D792
Water Absorption (24 hr)	0.18	%	ASTM D570

Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D)	78		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield)	65.5	MPa	ASTM D638
Tensile Elongation (Break)	5.0	%	ASTM D638
Flexural Modulus	3100	MPa	ASTM D790
Flexural Strength	107	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	80	J/m	ASTM D256
Unnotched Izod Impact	800	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	132	°C	ASTM D648
CLTE - Flow	6.3E-5	cm/cm/°C	ASTM D696
Thermal Conductivity	0.23	W/m/K	ASTM C177
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	1.0E+7 to 1.0E+11	ohms	ASTM D257
Volume Resistivity	1.0E+7 to 1.0E+11	ohms·cm	ASTM D257
Static Decay	< 0.1	sec	MIL B-81705
Flammability	Nominal Value	Unit	Test Method
Flame Rating (0.508 mm)	V-0		UL 94

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Recommended distributors for this material

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