

## Westlake Plastics Zelux® SD-P Polycarbonate (static dissipative)

Category : Polymer , Thermoplastic , Polycarbonate (PC) , Polycarbonate, Molded

### Material Notes:

Carbon powder filled with high flexural strength and good thermal stability to 270°F. Thermoformable in 0.010" to 0.060" gauges; low outgassing. Information provided by Westlake Plastics.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Westlake-Plastics-Zelux-SD-P-Polycarbonate-static-dissipative.php](http://www.lookpolymers.com/polymer_Westlake-Plastics-Zelux-SD-P-Polycarbonate-static-dissipative.php)

Physical Properties	Metric	English	Comments
Density	1.33 g/cc	0.0480 lb/in <sup>3</sup>	ASTM D792
Water Absorption	0.18 %	0.18 %	ASTM D570; 24 hrs.

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	78	78	ASTM D2240
Tensile Strength, Yield	65.5 MPa	9500 psi	ASTM D638
Elongation at Break	5.0 %	5.0 %	ASTM D638
Flexural Strength	107 MPa	15500 psi	ASTM D790
Flexural Modulus	3.10 GPa	450 ksi	ASTM D790
Izod Impact, Notched	0.801 J/cm	1.50 ft-lb/in	ASTM D256
Izod Impact, Unnotched	8.01 J/cm	15.0 ft-lb/in	ASTM D256

Thermal Properties	Metric	English	Comments
CTE, linear	63.0 µm/m-°C	35.0 µin/in-°F	ASTM D696
	@Temperature 20.0 °C	@Temperature 68.0 °F	
Thermal Conductivity	0.231 W/m-K	1.60 BTU-in/hr-ft <sup>2</sup> -°F	ASTM C177
Deflection Temperature at 1.8 MPa (264 psi)	132 °C	270 °F	ASTM D648
Flammability, UL94	V-0	V-0	
	@Thickness 0.508 mm	@Thickness 0.0200 in	

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+7 - 1.00e+11 ohm-cm	1.00e+7 - 1.00e+11 ohm-cm	Dry; ASTM D257
	1.00e+7 - 1.00e+11	1.00e+7 - 1.00e+11	

Surface Resistance Electrical Properties	ohm Metric	ohm English	Dry: ASTM D257 Comments
Static Decay	<= 0.10 sec	<= 0.10 sec	15% RH; MIL-B-81705-B

## Contact Songhan Plastic Technology Co.,Ltd.

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