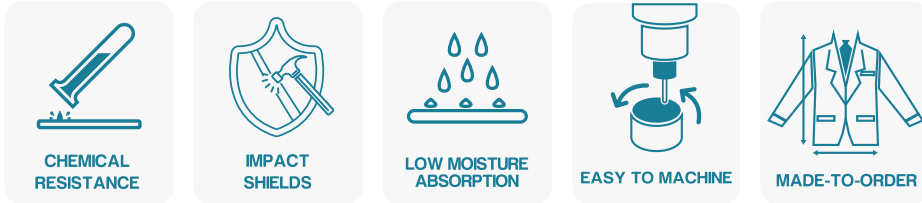


PROPYLUX® CN-F

ElectroStatic Discharge

Propylux® is a Registered Trademark of Westlake Plastics Co.

Propylux CN-F is a non-sloughing, carbon fiber filled Polypropylene resin. Surface Resistivity dry (10² - 10⁶ ohm/sq). Propylux CN-F provides good chemical resistance, low moisture absorption, good strength and stiffness, and temperature resistance to 250°F. Propylux CN-F is lightweight and machineable



Applications Include:

- Semiconductor Packaging, Process and Testing Components
- Semiconductor Wet/Dry Processing and CMP components
- Sensitive Electronic components
- Explosives handling equipment
- Metal Replacement / Weight Reduction

The following physical property information is based on typical values of the base polypropylene resin as well as test results from extruded rod.

Electrical Properties	Test Method	Result	
		Metric	English
Surface Resistivity dry	ASTM D257	10 ² - 10 ⁶ ohm/sq	10 ² - 10 ⁶ ohm/sq
Volume Resistivity dry	ASTM D257	10 ² - 10 ⁶ ohm-cm	393.7 - 3937008 ohm-in
Static decay	Mil-B-81705-B	< 0.1 seconds	< 0.1 seconds
Mechanical Properties	Test Method	Result	
		Metric	English
Tensile Strength at yield	ASTM D638	66 MPa	9.5 kpsi
Tensile Elongation at break	ASTM D638	2.5 %	2.5 %
Flexural Strength	ASTM D790	76 MPa	11 kpsi
Flexural Modulus	ASTM D790	5171 MPa	750 kpsi
Izod Impact Strength Notched	ASTM D256	0.59 J/cm	1.1 ft-lb/in
Izod Impact Strength Un-notched	ASTM D256	2.4 J/cm	4.5 ft-lb/in
Hardness-Shore D	ASTM D2240	63	63
Other Properties	Test Method	Result	
		Metric	English
Specific Gravity	ASTM D792	0.98	0.98
Water Absorption at 24 hours	ASTM D570	0.01 %	0.01 %
Thermal Properties	Test Method	Result	
		Metric	English
Heat Deflection Temp. at 264 psi	ASTM D648	121 °C	250 °F
Heat Deflection Temp. at 66 psi	ASTM D648	°C	°F
Flam. Rating-UL94	-	HB	HB

Manufacturing Capabilities:



Colors:

Black

In addition to our standard capabilities, Westlake also has the ability to process custom resins in various sizes and colors with some exceptions.

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Phone : 1.610.459.1000
 Phone : 1.800.000.1700
 Fax : 610.459.1084
 490 West Lenni road
 Lenni, PA 19052
 U.S.A
 Email : info@westlakeplastics.com

CLICK TO OUR WEBSITE



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