

PROPYLUX® CN-P

ElectroStatic Discharge

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

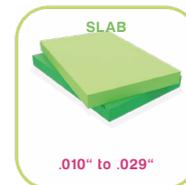
The following physical property information is based on typical values of the base polypropylene resin as well as test results from extruded rod.

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 yeild	ASTM D638	21 MPa	3 kpsi
Tensile Elongation at break	ASTM D638	15 %	15 %
Flexural Strength	ASTM D790	28 MPa	4 kpsi
Flexural Modulus	ASTM D790	965 MPa	140 kpsi
Izod Impact Strength Notched	ASTM D256	1.9 J/cm	3.5 ft-lb/in
Izod Impact Strength Un-notched	ASTM D256	9.3 J/cm	17.5 ft-lb/in
Hardness-Shore D	ASTM D2240		
Other Properties	Test Method	Result	
		Metric	English
Specific Gravity	ASTM D792	0.96	0.96
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	54 °C	130 °F
Heat Deflection Temp. at 66 psi	ASTM D648	°C	°F
Flam. Rating-UL94	-	HB	HB

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

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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