

Propylux® CN-P

Polypropylene
Westlake Plastics Company

Message:

PROPYLUX® CN-P (Conductive Polypropylene) Carbon-powder-filled lightweight material with good chemical resistance, extremely low water absorption level, and high impact resistance (no break, notched or unnotched).

- Advantages:
- Very good chemical resistance
 - Easily machined
 - Cost effective
 - Durable
 - Lightweight
 - Weldable
- Applications:
- Semiconductor/electronic components
 - Automotive assembly equipment
 - Business machine manufacturing components
 - Explosives handling equipment

General Information			
Filler / Reinforcement	Carbon Powder		
Additive	Antistatic		
Features	Antistatic		
	Durable		
	Good Chemical Resistance		
	High Impact Resistance		
	Low Moisture Absorption		
	Machinable		
	Semi Conductive		
	Weldable		
Uses	Automotive Applications		
	Business Equipment		
	Electrical Parts		
	Electrical/Electronic Applications		
Appearance	Black		
Forms	Film		
	Rod		
	Sheet		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.958	g/cm ³	ASTM D792
Water Absorption (24 hr)	1.0E-3	%	ASTM D570

Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield)	20.7	MPa	ASTM D638
Tensile Elongation (Break)	15	%	ASTM D638
Flexural Modulus	965	MPa	ASTM D790
Flexural Strength	27.6	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	190	J/m	ASTM D256
Unnotched Izod Impact	930	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	54.4	°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	HB		UL 94

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Recommended distributors for this material

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