

# Zelux® CN-P

Polycarbonate  
Westlake Plastics Company

Message:

ZELUX® CN-P (Conductive Polycarbonate). CN-P is carbon-powderfilled. CN-P has high flexural strength and good thermal stability to 275° F. CN-P is UL94 V-0 rated at .030 in and is thermoformable in thinner gauges (.010 to .060 in).

- 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		
Features	Durable		
	Good Thermal Stability		
	High Strength		
	Low to No Outgassing		
	Machinable		
	Non-Sloughing		
Uses	Semi Conductive		
	Electrical Parts		
	Electrical/Electronic Applications		
	Housings		
Appearance	Telecommunications		
	Black		
Forms	Film		
	Rod		
	Sheet		
Processing Method	Thermoforming		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.32	g/cm <sup>3</sup>	ASTM D792
Water Absorption (24 hr)	0.16	%	ASTM D570
Hardness	Nominal Value	Unit	Test Method

Durometer Hardness (Shore D)	62		ASTM D2240
<b>Mechanical</b>	<b>Nominal Value</b>	<b>Unit</b>	<b>Test Method</b>
Tensile Strength (Yield)	64.8	MPa	ASTM D638
Tensile Elongation (Break)	5.0	%	ASTM D638
Flexural Modulus	3170	MPa	ASTM D790
Flexural Strength	107	MPa	ASTM D790
<b>Impact</b>	<b>Nominal Value</b>	<b>Unit</b>	<b>Test Method</b>
Notched Izod Impact	75	J/m	ASTM D256
Unnotched Izod Impact	530	J/m	ASTM D256
<b>Thermal</b>	<b>Nominal Value</b>	<b>Unit</b>	<b>Test Method</b>
Deflection Temperature Under Load (1.8 MPa, Unannealed)	132	°C	ASTM D648
<b>Electrical</b>	<b>Nominal Value</b>	<b>Unit</b>	<b>Test Method</b>
Surface Resistivity	1.0E+3 to 1.0E+6	ohms	ASTM D257
Volume Resistivity	1.0E+3 to 1.0E+6	ohms·cm	ASTM D257
Static Decay	< 0.1	sec	MIL B-81705
<b>Flammability</b>	<b>Nominal Value</b>	<b>Unit</b>	<b>Test Method</b>
Flame Rating (0.711 mm)	V-0		UL 94

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### Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China



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