

# Pomalux® CN-F

Acetal (POM) Copolymer

Westlake Plastics Company

## Message:

Pomalux CN-F (Conductive Acetal Copolymer) Non-sloughing carbon-fiber-filled material which is extremely strong and stiff with excellent dimensional stability. Abrasion-resistant, highly chemical resistant, with temperature resistance to 320°F.

### Advantages:

Low outgassing

Consistent resistivity values

Ease of machining

Good chemical resistance

### Applications:

Disk drive assembly fixtures

Semiconductor/electronic components

Telecommunication hardware

Automotive equipment

General Information	
Filler / Reinforcement	Carbon Fiber
Features	Copolymer Good Abrasion Resistance Good Chemical Resistance Good Dimensional Stability High Stiffness High Strength Low to No Outgassing Machinable Non-Sloughing Semi Conductive
Uses	Automotive Applications Electrical Parts Electrical/Electronic Applications Telecommunications
Appearance	Black
Forms	Film Rod Sheet

Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.46	g/cm <sup>3</sup>	ASTM D792
Water Absorption (24 hr)	0.23	%	ASTM D570
Hardness	Nominal Value	Unit	Test Method

Durometer Hardness (Shore D)	88		ASTM D2240
<b>Mechanical</b>	<b>Nominal Value</b>	<b>Unit</b>	<b>Test Method</b>
Tensile Strength (Yield)	81.4	MPa	ASTM D638
Tensile Elongation (Break)	3.5	%	ASTM D638
Flexural Modulus	9310	MPa	ASTM D790
Flexural Strength	94.5	MPa	ASTM D790
<b>Impact</b>	<b>Nominal Value</b>	<b>Unit</b>	<b>Test Method</b>
Notched Izod Impact	53	J/m	ASTM D256
Unnotched Izod Impact	160	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)	160	°C	ASTM D648
<b>Electrical</b>	<b>Nominal Value</b>	<b>Unit</b>	<b>Test Method</b>
Surface Resistivity	1.0E+2 to 1.0E+6	ohms	ASTM D257
Volume Resistivity	1.0E+3 to 1.0E+7	ohms·cm	ASTM D257

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