



Static Control Lennite® (static control UHMW-PE)

LENNITE® CN-P (Conductive Ultra-High Molecular Weight Polyethylene)

Carbon powder-filled, self-lubricating, conductive material with excellent abrasion-resistance and high impact strength. This material is lightweight and easily machined, has good chemical and stress-crack resistance, and good wear-resistance.

LENNITE® SD-P (Static-dissipative Ultra-High Molecular Weight Polyethylene)

Carbon-powder-filled, self-lubricating, moisture-repellent material with resistivity levels in the 10^5 - 10^9 range. This material has the highest impact strength, is lightweight, has excellent abrasion resistance, and possesses good chemical and stress-crack resistance. The following physical property information is based on typical values of the resin.

Applications Include:

- Metal replacement components
- Bulk material handling equipment
- Weigh/fill equipment components
- Hopper/chute linings
- Explosives handling equipment

Manufacturing Capabilities:

Sheet: 1/8" to 4" thick

Colors/Grades:

CN-P—Black

SD-P—Black

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

Advantages of Lennite CN-P and SD-P:

- Low carbon loading (slough resistant)
- Self lubricating (low coefficient of friction)
- Excellent wear properties
- Noise dampening properties
- Exceptional abrasion resistance
- Lightweight
- Cost effective
- Very low temperature compatibility

	Units	ASTM Test	Lennite CN-P	Lennite SD-P
Mechanical				
Tensile strength @yield	psi	D638	5,700	3,130
Tensile elongation @break	%	D638	390.0	310.0 (1)
Flexural modulus	psi	D790	140,000	152,000
Izod impact strength				
Notched	ft•lbs/in	D256	No Break	—
Hardness—Shore D		D2240	70	67
Thermal				
Coefficient of thermal expansion	in/in/°F	D696	—	7.2×10^5
Heat deflection temperature				
@264 psi	°F	D648	—	115
@66psi	°F	D648	—	174
Electrical				
Surface resistivity dry	ohm/sq	D257	$10^2 - 10^6$	12.0×10^6
Volume resistivity dry	ohm/cm	D257	$10^2 - 10^6$	1.9×10^7
Other				
Specific gravity		D792	0.969	0.935
Water absorption @24 hours	%	D570	—	0.028

(1) Ultimate elongation

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