

Manufacturer of Extruded UHMW-PE

Phone: (800) 762-6808 Fax: (260) 484-6914

DURAVAR[®]- C – UHMW/PE Conductive Ultra-High Molecular Weight Polyethylene

PROPERTIES TABLE			
Information Provided Below is a Collection of Multiple Sourcing and Believed to be Accurate			
TYPICAL PHYSICAL PROPERTIES	TEST METHOD	U/M	DURAVAR [®] - C Conductive
PHYSICAL			
Hardness	ASTM D-2240	SHORE D	> 66
Intrinsic Viscosity (IV)	ASTM D-4020	DL/GM	> 28
Specific Gravity	ASTM D- 792	GM/CM ³	> .94
Water Absorption	ASTM D- 570	%	Nil
MECHANICAL			
Abrasion Index	SAND SLURRY	$\mathbf{STEEL} = 100$	> 10
Coefficient of Friction – Static (Polished Steel)	ASTM D-1894		>.15
Coefficient of Friction – Dynamic (Polished Steel)	ASTM D-1894		>.10
Compressive Modulus	ASTM D- 695	PSI	> 99000
Compressive Strength	ASTM D- 695	PSI	> 3000
Flexural Modulus	ASTM D- 790	PSI	> 115,000
Flexural Strength	ASTM D- 790	PSI	> 3000
Izod Impact	ASTM D-256A		No Break
Shear Strength	ASTM D- 732	PSI	
Tensile Strength	ASTM D- 638	PSI	> 4000
Tensile Elongation	ASTM D- 638	%	> 275
Tensile Modulus	ASTM D- 638	PSI	> 115,000
THERMAL			
Application Temperature - Maximum	ASTM D-648	°F	< 200
Coefficient of Linear Thermal Expansion	ASTM D-696	IN/IN/°F	7.8 x 10 ⁻⁵
Heat Deflection Temperature	ASTM D-648	°F	< 120
Melting Range	DSC	٩F	> 278
ELECTRICAL			
Dielectric Constant, 10 ⁶ HZ	ASTM D-150		
Dielectric Strength, Short Term	ASTM D-149	Volts/mil	
Dissipation Factor, 10 ⁶ HZ	ASTM D-150		
Surface Resistivity	ASTM D-257	ohms/sq	< 10 ⁵
This Chart Represents Typical Values for Static Reduced UHMW-PE Based on ASTM Testing Standards.			

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