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DURAVAR[®] - SR – UHMW/PE

Static Reduced Ultra-High Molecular Weight Polyethylene

PROPERTIES TABLE			
<i>Information Provided Below is a Collection of Multiple Sourcing and Believed to be Accurate</i>			
TYPICAL PHYSICAL PROPERTIES	TEST METHOD	U/M	DURAVAR [®] - SR Static Reduced
PHYSICAL			
Hardness	ASTM D-2240	SHORE D	> 66
Intrinsic Viscosity (IV)	ASTM D-4020	DL/GM	28 – 30
Specific Gravity	ASTM D- 792	lb/in	> 0.945
Water Absorption	ASTM D- 570	%	Nil
MECHANICAL			
Abrasion Index	SAND SLURRY	STEEL = 100	10
Coefficient of Friction – Static (Polished Steel)	ASTM D-1894	---	> .15
Coefficient of Friction – Dynamic (Polished Steel)	ASTM D-1894	---	> .10
Elongation at Break	ASTM D- 638	%	> 140
Flexural Modulus	ASTM D- 790B	PSI	> 100,000
Izod Impact	ASTM D-256A	---	No Break
Tensile at Break	ASTM D- 638	PSI	> 4000
Tensile Impact	ASTM D-1822	FT-LBS/IN ²	> 390
Tensile Modulus	ASTM D- 638	PSI	> 156,000
Yield Strength	ASTM D- 638	PSI	> 3000
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
Melting Range	DSC	°F	> 278
ELECTRICAL			
Dielectric Constant	ASTM D-150	---	---
Dissipation Factor	ASTM D-150	---	---
Static Decay Time	FTS-101C	SECONDS	< 0.1
Surface Resistivity	ASTM D-257	OHMS	< 10 ⁹
Volume Resistivity	ASTM D-257	OHMS-CM	< 10 ⁹
<i>This Chart Represents Typical Values for Static Reduced UHMW-PE Based on ASTM Testing Standards.</i>			

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