ARTEK

DURAVAR® "XT" UHMW-PE

Premium Grade Ultra-High Molecular Weight Polyethylene

Produced Utilizing Advanced Ram Extrusion Technology

PROPERTIES TABLE Information Provided Below is a Collection of Multiple Sourcing and Believed to be Accurate			
PHYSICAL PROPERTIES			Premium Grade
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PHYSICAL			
Intrinsic Viscosity (IV)	ASTM D-4020	dl/gm	28 – 30
Density	ASTM D- 792	g/cm ³	0.93
Hardness (Scale)	ASTM D-2240	Rockwell-R	> 67
Water Absorption	ASTM D- 570	%	Nil
MECHANICAL	1		
Yield Strength	ASTM D- 638	psi	> 2800
Tensile Break	ASTM D- 638	psi	> 5200
Elongation at Break	ASTM D- 638	%	> 400
Flexural Modulus	ASTM D- 790	psi	90,000
Izod Impact	ASTM D- 256	ft-lb/in ²	No Break
Abrasion Index (Relitive To Steel @ 100)	Sand Slurry		7.5
Coefficient of Friction – Static (Polished Steel)	ASTM D-1894		.12 – .15
Coefficient of Friction – Dynamic (Polished Steel)	ASTM D-1894		.10 – .14
THERMAL	1		
Coefficient of Linear Thermal Expansion	ASTM D- 696	In/in/°F	7.8 x 10 ⁻⁵
Application Temperature – Maximum	ASTM D- 648	°F	< 200
Melting Range	DSC	°F	> 278
ELECTRICAL	1		
Volume Resistivity	ASTM D- 257	ohms-cm	1016
Surface Resistivity	ASTM D- 257	ohms	1016

Tech Data-XT 090110

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