



DURAVAR® "O" UHMW-PE

Virgin Oil Filled 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

TYPICAL	TEST	U/M	DURAVAR® - O
PHYSICAL PROPERTIES			Virgin Oil-Filled
PHYSICAL			
Intrinsic Viscosity (IV)	ASTM D-4020	DL/GM	28 – 30
Density	ASTM D-792	GM/CM ³	0.935 – 0.945
Hardness	ASTM D-2240	SHORE D	> 67
Water Absorption	ASTM D-570	%	Nil
MECHANICAL			
Yield Strength	ASTM D-638	PSI	> 2,500
Tensile @ Break	ASTM D-638	PSI	> 6,500
Elongation at Break	ASTM D-638	%	> 275
Tensile Modulus	ASTM D-638	PSI	>6,500
Flexural Modulus	ASTM D-790	PSI	>63,000
Izod Impact	ASTM D-256	(ft-lb/in of notch)	No Break
Tensile Impact	ASTM D-1822	FT-LBS/IN ²	>1,300
Coefficient of Friction – Static (Polished Steel)	ASTM D-1894	---	.20 – .25
Coefficient of Friction – Dynamic (Polished Steel)	ASTM D-1894	---	.10 – .15
THERMAL			
Application Temperature – Constant (Max.)	ASTM D-648	°F	< 180
Application Temperature – Intermittent (Max.)	ASTM D-648	°F	< 200
Coefficient of Linear Thermal Expansion	ASTM D-696	IN/IN/°F	7.8 x 10 ⁻⁵
ELECTRICAL			
Surface Resistivity	ASTM D-257	OHMS	10 ¹⁵
Volume Resistivity	ASTM D-257	OHMS-CM	10 ¹⁵
COMPLIANCE PROPERTIES			
FDA	---	---	Yes
NSF	---	---	Yes
USDA	---	---	Yes

This Chart Represents Typical Values for Virgin Oil Filled UHMW-PE Based on ASTM Testing Standards.

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