

HMWPE (High Molecular Weight Polyethylene) SPECIFICATIONS

Property	Value	Units	ASTM Test Method
Physical			
Density	0.0343	lb/in ³	D4883
ESCR 100% Igepal®	>=800	hour	D1693
Melt Flow	<=0.100	g/10min	D1238
Mechanical			
Tensile Strength @ Yield	3800	psi	D638
Elongation @ Break	1000	%	D638
Flexural Modulus	180	ksi	D790
Tensile Impact Strength	100	ft-lb/in ²	D1822
Thermal			
CTE, linear	66.7	in/in-°F	D696
Deflection Temperature @ 0.46 MPa (66 psi)	158	°F	D648
Vicat Softening Point	250	°F	D1525
Brittleness Temperature	<=-105	°F	D746

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