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## HIGH-DENSITY POLYETHYLENE TYPICAL PROPERTIES

Property	Units	Value	ASTM Method
ASTM Type, Class, Category	—	IV,A,4	D 1248
Melt Index	g/10 min.	0.70	D 1238
Density	g/cm <sup>3</sup>	0.960	D 1505
Hardness	Shore D	68	D 2240
<b>Mechanical</b>			
Tensile Strength @ Break	psi	4,500	D 638
Elongation @ Break	%	>600	D 638
Flexural Modulus @ 2% secant method	psi	120,000	D 790
Tensile Impact, (2)	ft-lb/in	100	D 1822
Environmental Stress Crack Resistance, F50	< 5000 hrs.	—	D 1693
	< 5000 hrs.	—	D 2561
<b>Thermal</b>			
Low Temperature Brittleness, F50	°C	<-7.6	D 746
Heat Deflection Temperature @ 66 PSI	°C	78	D 648
Vicat Softening Point	°C	125	D 1525

HDPE meets the standard established by Food and Drug Regulation 21 CFR 177.52 for all food contact, USDA, and the Department of Canadian Agriculture.