

SUPPLY SERVICES

performance engineering products



POLYMER INDUSTRIES

Densetec HMW Sheet: Typical Properties

Property*	ASTM Test Method	Typical Values	
		English Units	Metric Units
Density	D1505	59.2 lbs/ft ³	0.948 glee
Melt Flow Rate (HLMI), Condition 190 °C / 21.6 kg	D1238	—	10 g / 10 min
Polyethylene Classification	D4976	Group 2, Class 3, Grade 5	Group 2, Class 3, Grade 5
Potable Water Standards	NSF International	Meets Standards 14 & 61	Meets Standards 14 & 61
Tensile Strength@ Yield	D638	3,600 psi	24.8 MPa
Elongation at Break	D638	700%	700%
Flexural Modulus	D790	175,000 psi	1207 MPa
ESCR, Condition A & B (100% Igepal), F ₅₀	D1693	> 600 hours	> 600 hours
Durometer Hardness	D2240	68 Shore D	68 Shore D
Vicat Softening Temperature	D1525	258 °F	126 °C
Heat Deflection Temperature@ 66 psi	D648	173 °F	78 °C
Brittleness Temperature	D746	< -103 °F	< -75 °C
Tensile Impact Strength	D1822	90 ft-lbf/in ²	190 KJ/m ²
Fire Rating	—	UL94HB	UL94 HB

*The nominal properties reported herein are typical of the product but do not reflect normal testing variance and therefore should not be used for specification purposes.

Typical Properties reported herein were determined on compression molded samples prepared in accordance with Procedure C of ASTM D4703, Annex A1.