HDPE Natural Polyethylene



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PHYSICAL PROPERTIES

Poly Hi Solidur's high density polyethylene (HDPE) is used in a variety of applications and industries where excellent impact resistance, high tensile strength, low moisture absorption and chemical- and corrosion-resistance properties are required. It is available in both extruded (up to 1" thick) and pressed sheet (from 1" through 4" thick).

Method	Unit	Nominal Value*
ASTM D-792	g/cm3	95
ASTM D-638	psi	4279
ASTM D-638	psi	n/a
ASTM D-638	%	18
ASTM D-638	%	n/a
DIN 53448	ft-lbs/in2	570
ASTM D-790	psi	166,796
ASTM D-790	psi	n/a
ASTM D-4020	ft-lbs/in2	1.3
ASTM D-2240	ft-lbs/in2	n/a
ASTM D-695	psi	n/a
ASTM D-621	% at 1000 psi	n/a
ASTM D-3417	°F	264
ASTM D-2240	Shore D	67
ASTM D-696	in/in/°F	6.7×10^{-5}
ASTM D-648	°F	170
	°F	170
ASTM D-257	Ohm-cm	>10 ¹⁵
ASTM D-257	Ohm	>10 ¹⁵
ASTM D-570	%	0.0001
	ASTM D-792 ASTM D-638 ASTM D-638 ASTM D-638 ASTM D-638 ASTM D-638 DIN 53448 ASTM D-790 ASTM D-790 ASTM D-4020 ASTM D-4020 ASTM D-695 ASTM D-621 ASTM D-621 ASTM D-621 ASTM D-648 ASTM D-648 ASTM D-648	ASTM D-792 g/cm3 ASTM D-638 psi ASTM D-638 psi ASTM D-638 % ASTM D-638 % ASTM D-638 % DIN 53448 ft-lbs/in2 ASTM D-790 psi ASTM D-790 psi ASTM D-4020 ft-lbs/in2 ASTM D-2240 ft-lbs/in2 ASTM D-695 psi ASTM D-621 % at 1000 psi ASTM D-3417 °F ASTM D-2240 Shore D ASTM D-696 in/in/°F ASTM D-648 °F °F ASTM D-257 Ohm-cm ASTM D-257 Ohm

^{*}All values are determined on specimens prepared according to ASTM 1248-84 "Standard Specifications for Polyethylene Plastic Molding and Extrusion Materials". Nominal values should not be interpreted as specifications.

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