

Standard HDPE



Standard HDPE Sheet

- Excellent overall mechanical properties
- Easy to machine and weld
- High chemical resistance

Applications

- Tanks and vessels
- Food cutting boards
- Light-duty guides and rails

Typical Properties

Property	Test Method	Units	Values
PHYSICAL			
Density	ASTM D 792	g/cm ³	0.955
Water absorption	ASTM D 570	%	<0.10
MECHANICAL			
Hardness	ASTM D 2240	Shore D	65
Tensile strength at yield, 73°F	ASTM D 638	psi	4,000
Tensile modulus	ASTM D 638	psi	217,000
Elongation at break	ASTM D 638	%	>700
Flexural strength	ASTM D 790	psi	210,000
Izod impact, notched	ASTM D 256	ft-lbs/in	3.5
Coefficient of friction, dynamic	-	-	0.20-0.29
THERMAL			
Deflection temperature @ 264 psi	ASTM D 648	-	165
Melting point	-	°F	268
Maximum service temperature, air	-	°F	180
Coefficient of thermal expansion	ASTM D 696	in/in/°F x 10 ⁻⁵	6
Brittleness temperature	ASTM D 648	°F	-103
Flammability	UL 94	1/8 inch	HB
ELECTRICAL			
Dielectric constant	ASTM D 150	1 MHz	2.4
Surface resistivity	ASTM D 1257	Ω/cm	>10 ¹⁴

These suggestions and data are based on information we believe to be reliable. They are offered in good faith, but without guarantee, as conditions and methods of use are beyond our control. We recommend that the prospective user determines the suitability of our materials and suggestions before adopting them on a commercial scale.