

SANALITE® Hi-Density Polyethylene

The world of plastics at your door.

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PHYSICAL PROPERTIES

Sanalite® HDPE is a premium cutting board material manufactured by Poly Hi Solidur. The unique textured surface is easy on cutting blades. Sanalite® HDPE meets all food grade requirements under NSF, FDA, USDA, and Ag Canada regulations. This polymer is acid resistant and easily cleaned due to its closed cell structure.

Property	Method	Unit	Nominal Value*
Density	ASTM D-792	g/cm ³	0.949
Tensile strength at yield	ASTM D-638	psi	n/a
Tensile modulus	ASTM D-638	psi	224,812
Elongation at yield	ASTM D-638	%	18
Elongation at break	ASTM D-638	%	1350
Tensile impact	DIN 53448	ft-lbs/in ²	570
Flexural modulus	ASTM D-790	psi	166,796
Flexural strength	ASTM D-790	psi	n/a
Izod impact	ASTM D-4020	ft-lbs/in ²	1.3
IZOD impact notched	ASTM D-2240	ft-lbs/in ²	n/a
Hardness	ASTM D-2240	Shore D	67
Static friction	ASTM D-1894	Unitless	n/a
Dynamic friction	ASTM D-1894	Unitless	n/a
Impact brittleness temperature	ASTM D-746	°F	n/a
Melting point	ASTM D-3417	°F	260
Coefficient of linear thermal expansion	ASTM D-696	in/in/°F	6.7 x 10 ⁻⁵
Heat deflection temperature, 66 psi	ASTM D-648	°F	n/a
Heat deflection temperature, 264 psi	ASTM D-648	°F	n/a
Vicat softening temperature	ASTM D-1525	°F	n/a
Max. operating temp.		°F	170
Volume Resistivity	ASTM D-257	Ohm-cm	>10 ¹⁵
Surface Resistivity	ASTM D-257	Ohm	>10 ¹⁵
Water absorption 24hrs.	ASTM D-570	%	0.01

*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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