

Technical data sheet

Polystone® G (HDPE) Virgin Natural

Product characteristics

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

Typical field of application

- Tanks & Vessels
- Food cutting boards
- Light-duty guides & rails

Physical Properties	tested method	unit	value
Specific Gravity	D792	g/cm ³	0.955
Water Absorption	D570	%	≤0.10
Mechanical Properties	tested method	unit	value
Hardness	D785	Shore D	65
Tensile Strength at yield 73 °F	D638	psi	4,000
Tensile Modulus	D638	psi	217,000
Elongation at Break	D638	%	≥ 700
Flexural Strength	D790	psi	210,000
Izod Impact, Notched	D256	ft-lb/in	3.5
Coefficient of Friction, Dynamic	-	-	0.20-0.29
Thermal Properties	tested method	unit	value
CTE, linear	D696	in/in/°F	6x10 ⁻⁵
Melting Point	D1525	°F	260
Maximum Service Temperature, Air	-	°F	180
Deflection Temperature at 1.8Mpa (264psi)	D648	°F	165
Brittleness Temperature	D746	°F	<103
Flammability, UL94	-	1/8 inch	HB
Electrical Properties	tested method	unit	value
Dielectric constant	D150	-	2.4
Surface resistivity	D257	Ohm/cm	≥10 ¹⁴
Compliance Properties	tested method	unit	value
FDA	-	-	Yes
NSF	-	-	No (Cut-Rite 51 = Yes)
USDA	-	-	Yes

The data stated above are average values ascertained by statistical tests on a regular basis. The data above are provided purely for information and shall not be regarded as binding unless expressly agreed in a contract of sale.