

Technical Data Sheet

Polystone® ABS

ABS

Typical characteristics

- High rigidity
- Good impact strength
- Chemical resistant

	Test method	Unit	Guideline value
General properties			
Density	ASTM D792	g / cm ³	1.03
Water Absorption	ASTM D570	%	0.3
Mechanical properties			
Tensile Strength at yield 73°F	ASTM D638	psi	5600
Tensile Modulus	ASTM D638	psi	301000
Flexural Modulus	ASTM D790	psi	313000
Rockwell Hardness	ASTM D785	R	102
Izod Impact, Notched	ASTM D256	ft-lb/in	8.0
Coefficient of Friction, Dynamic			0.35
Thermal properties			
CTE, linear	ASTM D696	in/in/°F	4.89x10 ⁻⁴
Maximum Service Temperature, Air permanent		°F	222
Heat Deflection Temperature 264psi	ASTM D648	°F	168
Flammability, UL94		1/8 inch	HB
Electrical properties			
Dielectric constant	ASTM D150	1MHz	3.2
Dielectric strength	ASTM D149		450
Surface resistivity	ASTM D257	Ω/cm	10 ¹⁴
Compliance properties			
FDA			Yes
NSF			No
USDA			No

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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.



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