

Technical data sheet

Polystone® ABS

Product characteristics

- High rigidity
- Good impact strength
- Good chemical resistance

Typical field of application

- Prototypes
- Housings
- Short-run parts

Physical Properties	tested method	unit	value
Specific Gravity	D792	g/cm ³	1.03
Water Absorption	D570	%	0.3
Mechanical Properties	tested method	unit	value
Hardness	D785	Rockwell R	102
Tensile Strength at yield 73 °F	D638	psi	5,600
Tensile Modulus	D638	psi	301,000
Flexural Modulus	D790	psi	313,000
Izod Impact, Notched at 73° F	D256	ft-lb/in	8.0
Coefficient of Friction, Dynamic	-	-	0.35
Thermal Properties	tested method	unit	value
CTE, linear	D696	in/in/°F	4.89x10 ⁻⁴
Maximum Service Temperature, Air permanent	-	°F	222
Deflection Temperature at 1.8Mpa (264psi)	D648	°F	168
Flammability, UL94	-	1/8 inch	HB
Electrical Properties	tested method	unit	value
Dielectric constant	D150	-	3.2
Surface resistivity	D257	Ohm/cm	10 ¹⁴
Dielectric strength	D149	V/mil	450
Compliance Properties	tested method	unit	value
FDA	-	-	Yes
NSF	-	-	No
USDA	-	-	No

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.