

Technical data sheet

Polystone® PPO (NORYL™ EN 265)

Physical Properties	tested method	unit	value
Specific Gravity	D792	g/cm ³	1.08
Water Absorption 24 hours	D570	%	0.07
Water Absorption Saturation	D570	%	0.2
Dissipation Factor	D150	1 MHz	0.001
Mechanical Properties	tested method	unit	value
Hardness	D785	Shore D	-
Rockwell Hardness	D785	M	-
Rockwell Hardness	D785	R	R119
Tensile Strength at yield 73 °F	D638	psi	9,400
Tensile Modulus	D638	psi	350,000
Elongation at Break	D638	%	30
Flexural Strength	D790	psi	13,400
Flexural Modulus	D790	psi	360,000
Compressive Strength	D695	psi	-
Shear Strength	D732	psi	-
Izod Impact, Notched	D256	ft-lb/in	3.5
Coefficient of Friction, Dynamic	-	-	0.39
Thermal Properties	tested method	unit	value
CTE, linear	D696	in/in/°F	3.3x10 ⁻⁵
Melting Point	D3418	°F	-
Continuous Use	-	°F	220
Thermal Conductivity	-	in/hr/ft ² /F°	1.6
Deflection Temperature at 1.8Mpa (66psi)	D648	°F	289
Deflection Temperature at 1.8Mpa (264psi)	D648	°F	260
Flammability, UL94	-	1/8 inch	V-1
Electrical Properties	tested method	unit	value
Dielectric constant	D150	-	2.7
Surface resistivity	D257	Ohm/cm	≥10 ¹⁷
Dielectric strength	D149	V/mil	500
Compliance Properties	tested method	unit	value
FDA	-	-	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.