

Technical Data Sheet

Polystone[®] M UV-stabilized - ASTM

Typical characteristics

- Extended life in outdoor locations
- Very good abrasion and wear resistance
- Good impact strength
- UV-resistant

	Test method	Unit	Guideline value
General properties			
Density	ASTM D792	g / cm ³	0.93
Water Absorption	ASTM D570	%	<0.01
Mechanical properties			
Wear resistance	Sand-slurry		100
Hardness	ASTM D2240	Shore D	63
Tensile Strength at yield 73°F	ASTM D638	psi	3000
Tensile Modulus	ASTM D638	psi	100000
Elongation at Break	ASTM D638	%	>290
Flexural Strength	ASTM D790	psi	3200
Compressive Strength	ASTM D695	psi	2900
Coefficient of Friction, Dynamic			0.10-0.22
Coefficient of Friction, Static			0.15-0.20
Thermal properties			
CTE, linear	ASTM D696	1/K	1.1 x 10 ⁻⁴
Melting Point		°F	266 - 275
Maximum Service Temperature, Air		°F	180
Heat Deflection Temperature 264psi	ASTM D648	°F	108
Flammability, UL94		1/8 inch	HB
Electrical properties			

Röchling Industrial Gastonia, LP

903 Gastonia Technology Parkway • 28034 Dallas/United States (US) • Tel. +1 704 922-7814
 info.gastonia@roechling.com • www.roechling.com/industrial/rep-us

Print: 27/07/2024 • Release: 20/09/2023

PIM-Version: 31 • PIM-ID: 717950 • PIM-Code: 31-19-9.121.161.14-2

Page 1 / 2 (Dates in DD/MM/YYYY)



	Test method	Unit	Guideline value
Dielectric constant	ASTM D150	1MHz	2.3
Surface resistivity	ASTM D257	Ω/cm	10 ⁴ - 10 ⁹
Compliance properties			
FDA			No
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.



Röchling Industrial Gastonia, LP

903 Gastonia Technology Parkway • 28034 Dallas/United States (US) • Tel. +1 704 922-7814
 info.gastonia@roechling.com • www.roechling.com/industrial/rep-us

Print: 27/07/2024 • Release: 20/09/2023

PIM-Version: 31 • PIM-ID: 717950 • PIM-Code: 31-19-9.121.161.14-2

