

## Technical Data Sheet

# Polystone<sup>®</sup> M Slide - ASTM

### Typical characteristics

- Very low coefficient of friction
- Self-lubricating
- Very good abrasion and wear resistance

### Typical industries

- Conveyor Technology & Automation
- Food Industry
- Mechanical Engineering Industry

	Test method	Unit	Guideline value
<b>General properties</b>			
Density	ASTM D792	g / cm <sup>3</sup>	0.95 - 0.96
Water Absorption	ASTM D570	%	<0.01
<b>Mechanical properties</b>			
Wear resistance	Sand-slurry		80
Hardness	ASTM D2240	Shore D	62 - 66
Tensile Strength at yield 73°F	ASTM D638	psi	3000
Tensile Modulus	ASTM D638	psi	100000
Elongation at Break	ASTM D638	%	>200
Flexural Strength	ASTM D790	psi	2300
Compressive Strength	ASTM D695	psi	2900
Coefficient of Friction, Dynamic			0.07-0.10
Coefficient of Friction, Static			0.10-0.15
<b>Thermal properties</b>			
CTE, linear	ASTM D696	1/K	1.0 x 10 <sup>-4</sup>
Melting Point		°F	266 - 275
Maximum Service Temperature, Air		°F	180
Flammability, UL94		1/8 inch	HB
<b>Electrical properties</b>			
Dielectric constant	ASTM D150	1MHz	2.3
Surface resistivity	ASTM D257	Ohm/cm	>10 <sup>12</sup>

### Röchling Industrial Gastonia, LP

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

Print: 03/05/2024 • Release: 08/04/2024 • Version: 1.0  
 PIM-Version: 32 • PIM-ID: 717949 • PIM-Code: 32-19-12.9.121-11.5.5-2



	Test method	Unit	Guideline value
<b>Compliance properties</b>			
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.



#### Röchling Industrial Gastonia, LP

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

Print: 03/05/2024 • Release: 08/04/2024 • Version: 1.0  
PIM-Version: 32 • PIM-ID: 717949 • PIM-Code: 32-19-12.9.121-11.5.5-2

