

Technisches Datenblatt

Polystone[®] M virgin - ASTM

Typische Eigenschaften

- Geringer Gleitreibungskoeffizient
- Sehr gute Abrieb- und Verschleißfestigkeit
- Gute Schlagzähigkeit

Typische Industrien

- Maschinen- und Anlagenbau

	Testverfahren	Einheit	Wert
Allgemeine Eigenschaften			
Specific Gravity	ASTM D792	g / cm ³	0.93
Water Absorption	ASTM D570	%	<0.10
Mechanische Eigenschaften			
Verschleißfestigkeit	Sand-slurry		100
Hardness	ASTM D2240	Shore D	62 - 66
Tensile Strength at yield 73°F	ASTM D638	psi	3100
Tensile Modulus	ASTM D638	psi	100000
Reißdehnung	ASTM D638	%	>350
Flexural Strength	ASTM D790	psi	3500
Compressive Strength	ASTM D695	psi	3000
Izod Impact, Notched	ASTM D256	ft-lb/in	No Break
Coefficient of Friction, Dynamic			0.10-0.22
Coefficient of Friction, Static			0.15-0.20
Izod Impact Strength	ASTM D4020	kJ / m ²	125
Thermische Eigenschaften			
CTE, linear	ASTM D696	in/in/°F	1.1x 10 ⁻⁴
Melting Point	ASTM D3418	°F	266 - 275
Vicat Softening Point	ISO306	°F	176
Maximum Service Temperature, Air		°F	180
Heat Deflection Temperature 264psi	ASTM D648	°F	108

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

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	Testverfahren	Einheit	Wert
Flammability, UL94		1/8 inch	HB
Elektrische Eigenschaften			
Volume Resistivity	ASTM D257	Ωcm	$>10^{15}$
Dielektrizitätszahl	ASTM D150	1MHz	2.3
Durchschlagfestigkeit	ASTM D149	kV / mm	45
Oberflächenwiderstand	ASTM D257	Ohm/cm	$>10^{12}$
Compliance properties			
FDA			Yes
NSF			No
USDA			Yes

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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