Röchling

Industrial

Technical Data Sheet

Polystone® M soft

Product characteristics

- Good sliding properties with soft sliding partners
- Extreme low coefficient of friction
- Very wear resistant

Product applications

- Beverage industry
- Packaging industry

	Test method	Unit	Value
General properties			
Density	DIN EN ISO 1183-1	g / cm^3	>0,92
Water absorption	DIN EN ISO 62	%	<0,01
Flammability (Thickness 3 mm / 6 mm)	UL 94		HB
Molecular weight	-	10^6 g/mol	~ 9
Mechanical properties			
Yield stress	DIN EN ISO 527	MPa	>18
Elongation at break	DIN EN ISO 527	%	>50
Tensile modulus of elasticity	DIN EN ISO 527	MPa	>500
Notched impact strength	DIN EN ISO 11542-2	kJ / m²	>100
Shore hardness	DIN EN ISO 868	scale D	>57
Thermal properties			
Melting temperature	ISO 11357-3	°C	130 ... 135
Thermal conductivity	DIN 52612-1	W / (m * K)	0,40
Thermal capacity	DIN 52612	kJ / (kg * K)	1,90
Coefficient of linear thermal expansion	DIN 53752	10^{-6} / K	150 ... 230
Service temperature, long term	Average	°C	-250 ... 80
Service temperature, short term (max.)	Average	°C	130
Vicat softening temperature	DIN EN ISO 306, Vicat B	°C	79
Electrical properties			
Volume resistivity	DIN EN 62631-3-1	Ω * cm	$>10^{14}$
Surface resistivity	DIN EN 62631-3-2	Ω	$>10^{14}$
Dielectric strength	IEC 60243	kV / mm	>40

The data stated above are average values ascertained by statistical tests on a regular basis. They are in accordance with DIN EN 15860. 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 SE & Co. KG
Röchlingstr. 1 • D-49733 Haren/Germany • Tel. +49 5934 701-0 • Fax +49 5934 701-299
info@roechling-plastics.com • www.roechling.com/industrial
Date: 10/06/2021 Version: 3.0.0

INTEGRATED MANAGEMENT SYSTEM