

Technical data sheet

Polystone® M-soft

Product characteristics

- Excellent sliding characteristics with soft sliding partners
- Extreme low coefficient of friction
- Very wear resistant

Typical field of application

- Bottling industry
- Packaging industry

Physical Properties	tested method	unit	value
Density	DIN EN ISO 1183-1	g/cm ³	0.93
Water Absorption	DIN EN ISO 62	%	≤ 0.01
Mechanical Properties	tested method	unit	value
Yield Stress	DIN EN ISO 527	N/mm ²	18
Elongation at Break	DIN EN ISO 527	%	>200
Tensile modulus of elasticity	DIN EN ISO 527	MPa	450
Impact strength	DIN EN ISO 179	kJ/m ²	No Break
Shore hardness	DIN EN ISO 868	Scale D	58
Thermal Properties	tested method	unit	value
Melting temperature	ISO 11357-3	°C	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 ⁻¹	150 - 230
Service temperature, long term	Average	°C	-250° ... 80°
Service temperature, short term (max.)	Average	°C	130°
Heat deflection temperature	DIN EN ISO 306, Vicat B	°C	79°
Electrical Properties	tested method	unit	value
Dielectric constant	IEC 60250	-	2.3
Dielectric dissipation factor (10 ⁶ Hz)	IEC 60250	-	0.0001
Volume resistivity	IEC 60093	Ω *cm	>10 ¹⁴
Surface resistivity	IEC 60093	Ω	>10 ¹⁴
Comparative tracking index	IEC 60112		600
Dielectric strength	IEC 60243	kV/mm	45
Compliance Properties	tested method	unit	value
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.