Röchling

Industrial

Technical Data Sheet

Formaterm® ABS/TPE "soft touch"

Product characteristics

- Good vacuum forming properties
- Soft surface
- Resistant against scratches

Product applications

- Vacuum forming industry
- Sports and leisure industry
- Vehicle construction

	Test method	Unit	Guideline Value
General properties			
Density	DIN EN ISO 1183-1	g / cm^3	1,06
Water absorption	DIN EN ISO 62	%	0,7
Flammability (Thickness 3 mm / 6 mm)	UL 94		HB
Mechanical properties			
Yield stress	DIN EN ISO 527	MPa	40
Elongation at break	DIN EN ISO 527	%	15
Tensile modulus of elasticity	DIN EN ISO 527	MPa	1900
Notched impact strength	DIN EN ISO 179	kJ / m^2	30
Shore hardness	DIN EN ISO 868	scale D	75
Thermal properties			
Glass transition temperature	ISO 11357-3	°C	80 – 100
Thermal conductivity	DIN 52612-1	W / (m * K)	0,18
Coefficient of linear thermal expansion	DIN 53752	10^{-6} / K	60 - 110
Service temperature, long term	Average	°C	-40 ... 80
Service temperature, short term (max.)	Average	°C	85 – 100
Vicat softening temperature	DIN EN ISO 306, Vicat B	°C	99
Electrical properties			
Dielectric constant	IEC 60250		3,00
Dielectric dissipation factor (10^6 Hz)	IEC 60250		0,0007
Volume resistivity	DIN EN 62631-3-1	Ω * cm	>10^{15}
Surface resistivity	DIN EN 62631-3-2	Ω	>10^{13}
Dielectric strength	IEC 60243	kV / mm	20

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: 26/09/2016 Version: 2.0.0

INTEGRATED MANAGEMENT SYSTEM