Röchling

Industrial

Technical Data Sheet

Formaterm® PC/ABS standard

Product characteristics

- Good vacuum forming properties
- High breaking and bending strength
- High impact strength

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	1,12
Water absorption	DIN EN ISO 62	%	0,4 – 0,6
Flammability (Thickness 3 mm / 6 mm)	UL 94		HB
Mechanical properties			
Yield stress	DIN EN ISO 527	MPa	55
Elongation at break	DIN EN ISO 527	%	50
Tensile modulus of elasticity	DIN EN ISO 527	MPa	2400
Notched impact strength	DIN EN ISO 179	kJ / m^2	41
Shore hardness	DIN EN ISO 868	scale D	80
Thermal properties			
Glass transition temperature	ISO 11357-3	°C	120
Thermal conductivity	DIN 52612-1	W / (m * K)	0,20
Coefficient of linear thermal expansion	DIN 53752	10^{-6} / K	60 - 110
Service temperature, long term	Average	°C	-50 ... 110
Service temperature, short term (max.)	Average	°C	105
Vicat softening temperature	DIN EN ISO 306, Vicat B	°C	120
Electrical properties			
Dielectric constant	IEC 60250		3,00
Dielectric dissipation factor (10^6 Hz)	IEC 60250		0,004
Volume resistivity	DIN EN 62631-3-1	Ω * cm	>10^{15}
Surface resistivity	DIN EN 62631-3-2	Ω	>10^{14}
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.

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INTEGRATED MANAGEMENT SYSTEM