Röchling

Industrial

Technical Data Sheet

Trovidur® ESV

Product characteristics

- Highly impact resistant
- High UV and weather resistance
- Very good streching behaviour for thermoforming

Product applications

- Vacuum forming industry
- Construction industry

	Test method	Unit	Guideline Value
General properties			
Density	DIN EN ISO 1183-1	g / cm^3	1,41
Water absorption	DIN EN ISO 62	%	0,20
Flammability (Thickness 1,5 mm)	BS 476 Part 7 (GB)		Class 1
VOC	ISO 16.000	conform	A+
Mechanical properties			
Yield stress	DIN EN ISO 527	MPa	45
Elongation at break	DIN EN ISO 527	%	20
Tensile modulus of elasticity	DIN EN ISO 527	MPa	2500
Notched impact strength	DIN EN ISO 179	kJ / m^2	8
Shore hardness	DIN EN ISO 868	scale D	80
Ball Hardness	ISO 2039	MPa	100
Compressive strength	DIN EN ISO 604	MPa	65
Bending strength	DIN EN ISO 178	MPa	60
Thermal properties			
Thermal conductivity	DIN 52612-1	W / (m * K)	0,16
Vicat softening temperature	DIN EN ISO 306, Vicat B	°C	76
Service Temperature		°C	-20 ... +60
Heat deflection temperature	DIN EN ISO 75	°C	70
Coefficient of linear thermal expansion	DIN EN ISO 11359-2	mm/m K	~ 0,075
Electrical properties			
Dielectric constant	IEC 60250		3,2
Dielectric dissipation factor (10^6 Hz)	IEC 60250		0,02
Volume resistivity	DIN EN 62631-3-1	Ω * cm	>10^{15}
Surface resistivity	DIN EN 62631-3-2	Ω	>10^{13}

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.

Information on the REACh regulation can be found in our Product Handling Information Sheets, in our REACh information letter as well as in the SCIP database.

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