Röchling

Industrial

Technical Data Sheet Trovidur[®] PVC-U grey

Typical characteristics

- Flame retardant
- Self-Extinguishing after removal of the flame
- High rigidity
- Electrically insulating
- Good resistance to acids, lyes and salt solutions
- Good weldability
- Good thermoformability
- Good glueability
- Good printability
- Chemical resistant

Typical industries

- Construction de réservoirs et d'installations chimiques
- Industrie électronique
- Réservoirs de stockage

	Test method	Unit	Guideline value
General properties			
Densité	DIN EN ISO 1183-1	g / cm ³	1,45
Flammability (Thickness 3 mm / 6 mm)	UL 94		V0 / V0
Mechanical properties			
Yield stress	DIN EN ISO 527	MPa	45
Elongation at break	DIN EN ISO 527	%	15
Tensile modulus of elasticity	DIN EN ISO 527	MPa	3000
Notched impact strength	DIN EN ISO 179	kJ / m ²	2
Shore hardness	DIN EN ISO 868	scale D	79
Thermal properties			
Thermal conductivity	DIN 52612-1	W / (m * K)	0,2
Coefficient of linear thermal expansion	DIN 53752	10 ⁻⁶ / K	80
Service temperature, long term	Average	°C	0 60
Service temperature, short term (max.)	Average	°C	70
Electrical properties			
Dielectric constant	IEC 60250		3

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Print: 23/12/2024 • Release: 20/09/2023 PIM-Version: 644 • PIM-ID: 591293 • PIM-Code: 644-18-12.11.11.13.20.16.34.3.17.33-7.8.7-6

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	Test method	Unit	Guideline value
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 short-term maximum application temperature only applies to very low mechanical stress for a few hours. The long-term maximum application temperature is based on the thermal ageing of plastics by oxidation, resulting in a decrease of the mechanical properties. This applies to an exposure to temperatures for at least 5.000 hours causing a 50% loss of the tensile strength from the original value (measured at room temperature). This value says nothing about the mechanical strength of the material at high application temperatures. In case of thick-walled parts, only the surface layer is affected by oxidation from high temperatures. With the addition of antioxidants, a better protection of the surface layer is achieved. In any case, the center area of the material refer to an minimum degree of impact stress. The electrical properties as stated result from measurements on natural, dry material. With other colours (in particular black) or saturated material, there may be clear differences in the electrical properties. The data stated above are a guide to choose from our range of materials. This, however, does not include an assurance of specific properties or the suitability for particular application purposes that are legally binding. Since the properties also depend on the dimension of the semi-finished products and the degree of crystallization (e.g. nucleating by pigments), the actual values of the properties of a particular product may differ from the indicated values.

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