

uPVC Glas®

Material Information



uPVC - Glas®

Product full identity:

Unplasticised Polyvinyl Chloride Glas®

uPVC Glas® blue tint (PE-Protection on both sides) has exceptional chemical resistance, high mechanical and tensile strength whilst offering a class 1 fire rating. Together with a high degree of stability, this easily weldable product offers many industrial solutions.

Properties

- Fire rating - self extinguishing
- Excellent chemical resistance
- Good temperature range (+60 to -0°C)
- High mechanical and tensile strength
- High rigidity
- Easily glued and weldable

Applications

- Corrosive fluids
- Internal wall cladding
- Handling tanks
- Pump and valve bodies
- Ventilation systems

Forms



Sheet



Weld Rod

uPVC Glas®

Technical Properties

Physical	Unit	Test Method	Result
Specific gravity	g/cm ³	DIN EN ISO 1183	1.37
Water absorption until saturation at 23°C	%	-	-
Maximum service temp. Upper temp limit – short term	°C	-	60
Maximum service temp. Upper temp limit – long term	°C	-	-
Lower temp limit	°C	-	0
Mechanical	Unit	Test Method	Result
Tensile strength	MPa	DIN EN ISO 527	73
Elongation at yield	%	DIN EN ISO 527	4
Tensile strength at break	MPa	-	-
Unnotched impact strength	kJ/m ²	-	-
Notch impact strength	kJ/m ²	DIN EN ISO 179	3
Ball indentation / Rockwell hardness	MPa	-	-
Shore-D		DIN EN ISO 868	84
Flexural modulus of elasticity	MPa	-	-
Tensile modulus of elasticity	MPa	DIN EN ISO 527	3300
Thermal	Unit	Test Method	Result
Vicat-softening point VST/B/50	°C	DIN EN ISO 306	66
Heat deflection temperature HDT/B	°C	-	-
Coefficient of linear thermal expansion 23 – 100°C	m/(m.K)	ISO 11359-2	0.8 x 10 ⁻⁴
Thermal conductivity at 23°C	W/mK	-	-
Electrical	Unit	Test Method	Result
Volume resistivity	Ω x m	-	-
Surface resistivity	Ω	DIN IEC 60093	10 ¹³
Insulation resistivity	Ω . cm	-	-
Dielectric constant at 1MHz		-	-
Dielectric loss factor at 1MHz		-	-
Dielectric strength	kV/mm	DIN IEC 60243-1	30
Comparative tracking index (CTI)		-	-
Additional Data	Unit	Test Method	Result
Bondability		-	-
Food compliance – FDA		FDA	No
Food compliance – EU		EU 10/2011	No
Antistatic		-	-
Flammability	Unit	Test Method	Result
Fire performance		UL 94 BS 476	V-0 Class 1
Optical	Unit	Test Method	Result
Light transmission	%	3mm	88

All information provided in this Product Datasheet is for guide purposes only. The data has been taken from standard test results provided by our manufacturers.