

CPVC

Material Information



CPVC

Product full identity:

Chlorinated Polyvinyl Chloride

Engineered for high-temperature performance, CPVC delivers superior strength, chemical resistance, and fire safety. With dimensional stability up to 95°C, it's the reliable choice for chemical and pharmaceutical applications demanding long-term durability and precision.

Properties

- Temperature resistance to 85°C
- Fire rating - self extinguishing
- Excellent chemical resistance
- High mechanical and tensile strength
- Easily glued and weldable

Applications

- Chemical
- Pharmaceutical

Forms



Solid Rod



Sheet

Physical	Unit	Test Method	Result
Specific gravity	g/cm ³	DIN EN ISO 1183	1.52
Water absorption until saturation at 23°C	%	-	-
Maximum service temp. Upper temp limit – short term	°C	-	-
Maximum service temp. Upper temp limit – long term	°C	-	95
Lower temp limit	°C	-	-40
Mechanical	Unit	Test Method	Result
Tensile strength	MPa	DIN EN ISO 527	51
Elongation at yield	%	DIN EN ISO 527	5
Tensile strength at break	MPa	-	-
Unnotched impact strength	kJ/m ²	DIN EN ISO 179-1eU	No break
Notch impact strength	kJ/m ²	DIN EN ISO 179-1eA	8
Ball indentation / Rockwell hardness	MPa	-	-
Shore-D		DIN EN ISO 868	80
Flexural modulus of elasticity	MPa	-	-
Tensile modulus of elasticity	MPa	DIN EN ISO 527	2500
Thermal	Unit	Test Method	Result
Vicat-softening point VST/B/50	°C	DIN EN ISO 306	112
Heat deflection temperature HDT/B	°C	-	-
Coefficient of linear thermal expansion 23 – 100°C	m/(m.K)	ISO 11359-2	0.7 x 10 ⁻⁴
Thermal conductivity at 23°C	W/mK	-	-
Electrical	Unit	Test Method	Result
Volume resistivity	Ω x m	-	-
Surface resistivity	Ω	DIN EN 61340	≥10 ¹³
Insulation resistivity	Ω . cm	-	-
Dielectric constant at 1MHz		-	-
Dielectric loss factor at 1MHz		-	-
Dielectric strength	kV/mm	DIN IEC 60243-1	39
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		DIN 4102	B1
Optical	Unit	Test Method	Result
N/A	N/A	N/A	N/A

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.