

PPC Cladding Sheet

Material Information



PPC Cladding Sheet

Product full identity:

Polypropylene Copolymer - Cladding

PPC is a tough, versatile thermoplastic ideal for cladding, protective panels, and industrial applications. With excellent chemical resistance, low moisture absorption, and easy fabrication, it delivers long-lasting performance in both indoor and outdoor environments.

Properties

- Excellent impact strength
- Excellent chemical resistance
- Wide temperature range (+80 to -20°C)
- Food contact approved
- Very low moisture absorption <0.1%
- Lightweight and weldable

Applications

- Dairy
- Chemical tanks
- Protective cladding
- Packaging

Forms



Sheet

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Technical Properties

Physical	Unit	Test Method	Result
Specific gravity	g/cm ³	DIN EN ISO 1183	0.91
Water absorption until saturation at 23°C	%	DIN EN ISO 62	0.01
Maximum service temp. Upper temp limit – short term	°C	-	75
Maximum service temp. Upper temp limit – long term	°C	-	-
Lower temp limit	°C	-	-30
Mechanical	Unit	Test Method	Result
Tensile strength	MPa	ISO 527/2	28
Elongation at yield	%	ISO 527/2	12
Tensile strength at break	MPa	-	-
Unnotched impact strength	kJ/m ²	ISO 180/A	No break
Notch impact strength	kJ/m ²	ISO 180/A	58
Ball indentation / Rockwell hardness	MPa	ISO 2039-1	50
Shore-D		ASTM 868	64
Flexural modulus of elasticity	MPa	ISO 527/2	1300
Tensile modulus of elasticity	MPa	ISO 178	1350
Thermal	Unit	Test Method	Result
Vicat-softening point VST/B/50	°C	ISO 306/A	158
Heat deflection temperature HDT/B	°C	ISO 75/B	90
Coefficient of linear thermal expansion 23 – 100°C	m/(m.K)	-	-
Thermal conductivity at 23°C	W/mK	-	1.0
Electrical	Unit	Test Method	Result
Volume resistivity	Ω x m	-	-
Surface resistivity	Ω	-	-
Insulation resistivity	Ω . cm	-	-
Dielectric constant at 1MHz		-	-
Dielectric loss factor at 1MHz		-	-
Dielectric strength	kV/mm	-	-
Comparative tracking index (CTI)		-	-
Additional Data	Unit	Test Method	Result
Bondability		-	-
Food compliance – FDA		FDA	Yes
Food compliance – EU		EU 10/2011	Yes
Antistatic		-	-
Flammability	Unit	Test Method	Result
Fire performance		UL 94	HB
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.