

PPC - FR

Material Information



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Product full identity:

Polypropylene Copolymer - Fire Retardant

PPC - FR (PE protection one side) has most of the attributes of standard PPC, with the added advantage of being a fire retardant grade. PPC is a low density material that offers high impact and chemical resistance. PPC also boasts a good operating temperature range and is easily welded, due to this materials versatility it is ideal for a wide range of applications.

Properties

- Improved fire resistance
- Wide temperature range (+80 to -0°C)
- Excellent chemical resistance
- Lightweight and weldable
- Very low moisture absorption <0.1%

Applications

- Heating ventilation
- Air conditioning systems

Forms



Sheet

PPC - FR

Technical Properties

Physical	Unit	Test Method	Result
Specific gravity	g/cm ³	DIN EN ISO 1183	1.04
Water absorption until saturation at 23°C	%	-	-
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	DIN EN ISO 527	25
Elongation at yield	%	-	-
Tensile strength at break	MPa	-	-
Unnotched impact strength	kJ/m ²	-	-
Notch impact strength	kJ/m ²	DIN EN ISO 180	35 (23°C) / 4 (-30°C)
Ball indentation / Rockwell hardness	MPa	-	-
Shore-D		DIN EN ISO 868	67
Flexural modulus of elasticity	MPa	DIN EN ISO 178	1400
Tensile modulus of elasticity	MPa	-	-
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	97
Coefficient of linear thermal expansion 23 – 100°C	m/(m.K)	-	-
Thermal conductivity at 23°C	W/mK	-	-
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	No
Food compliance – EU		EU 10/2011	No
Antistatic		-	-
Flammability	Unit	Test Method	Result
Fire performance		1.5mm = UL 94 3mm = UL 94 2mm+ = FMV 55302 3mm+ = DIN 4102 pt1	HB V2 Passes 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.