

Curv™ C100A

Polypropylene

Propex Fabrics

Message:

A new generation thermoplastic composite

Curv™ is a novel material made from Polypropylene that combines the versatility and recyclability of a 100% thermoplastic with the high performance of a fiber reinforced composite. High stiffness, high tensile strength and outstanding impact resistance at low density are the remarkable properties of these materials.

Product: Polypropylene/Polypropylene Thermoformable Composite

Sheet Dimensions:

Thickness: 0.3 to 3.0 mm

Available Width: up to 1360 mm

Standard Length: Any length up to 3 meters, thinner sheets available on roll

Color: standard - black, other colors subject to minimum volume

General Information			
Features	High Impact Resistance		
	High Stiffness		
	High Tensile Strength		
	Recyclable Material		
Appearance	Black		
Forms	Fabric		
Processing Method	Thermoforming		
Physical	Nominal Value	Unit	Test Method
Density	0.920	g/cm ³	ISO 1183
Water Absorption (23°C, 24 hr)	< 0.10	%	DIN 53495
Mechanical	Nominal Value	Unit	Test Method
Flexural Modulus ¹	3500	MPa	ISO 178
Compressive Stress ²	300	MPa	ISO 604
Films	Nominal Value	Unit	Test Method
Film Puncture Energy ³ (2100 µm)	40.0	J	ISO 6603-2
Tensile Modulus			ISO 527-3
MD	4200	MPa	
TD	4200	MPa	
Tensile Strength			ISO 527-3
MD	120	MPa	
TD	120	MPa	
Tensile Elongation			ISO 527-3
MD : Break	20	%	
TD : Break	20	%	
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			

-40°C	No Break		ISO 179
20°C	120	kJ/m ²	ISO 179/2B
23°C	> 250	kJ/m ²	ISO 179/2
Notched Izod Impact Strength			ISO 180/B
-40°C	600	kJ/m ²	
20°C	400	kJ/m ²	
Tensile Impact Strength ⁴ (20°C, 2.10 mm)	1000	kJ/m ²	ISO 8256
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, Unannealed	102	°C	ISO 75-2/B
1.8 MPa, Unannealed	160	°C	ISO 75-2/A
Vicat Softening Temperature	175	°C	ISO 306/B
CLTE - Flow (20 to 80°C)	6.8E-5	cm/cm/°C	DIN 53752
Flammability	Nominal Value		Test Method
Fire Rating - Building Materials	B2		DIN 4102
NOTE			
1.	TD, flat wise		
2.	flat wise		
3.	20°C, 52 J		
4.	TD, 52 J		

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