

TRANSMARE® 70CNF30-0.005

Polypropylene Copolymer

Transmare Compounding B.V.

Message:

TRANSMARE® 70CNF30-0.005 is a 30% bamboo fiber reinforced polypropylene copolymer.

General Information			
Filler / Reinforcement	Bamboo Fiber, 30% filler by weight		
Features	Copolymer		
	Recyclable materials		
Forms	Particle		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Density	1.06	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR)			ISO 1133
190°C/2.16 kg	6.0	g/10 min	ISO 1133
190°C/5.0 kg	24	g/10 min	ISO 1133
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D)	68		ISO 868
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus (4.00 mm)	2700	MPa	ISO 527-2/1
Tensile Stress (Break, 4.00 mm, Injection Molded)	28.0	MPa	ISO 527-2/50
Tensile Strain (Break, 4.00 mm, Injection Molded)	2.2	%	ISO 527-2/50
Flexural Modulus	2750	MPa	ISO 178
Flexural Stress	42.0	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179/1A
-40°C	2.2	kJ/m ²	ISO 179/1A
23°C	3.6	kJ/m ²	ISO 179/1A
Charpy Unnotched Impact Strength			ISO 179/1U
-40°C	8.0	kJ/m ²	ISO 179/1U
23°C	11	kJ/m ²	ISO 179/1U
Notched Izod Impact			ISO 180/1A
-40°C	2.2	kJ/m ²	ISO 180/1A
23°C	4.0	kJ/m ²	ISO 180/1A
Unnotched Izod Impact Strength			ISO 180/1U
-40°C	9.3	kJ/m ²	ISO 180/1U
23°C	10	kJ/m ²	ISO 180/1U

Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (1.8 MPa, Unannealed)	71.0	°C	ISO 75-2/A
Vicat Softening Temperature	155	°C	ISO 306/A
Injection	Nominal Value	Unit	
Rear Temperature	165	°C	
Middle Temperature	175	°C	
Front Temperature	185	°C	
Nozzle Temperature	190	°C	
Mold Temperature	40.0 - 60.0	°C	
Injection Rate	Moderate		
Injection instructions			

In specific cases pre-drying of this material might be required.

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Recommended distributors for this material

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