

TRANSMARE® 35HNF30-0.001

Polypropylene Homopolymer

Transmare Compounding B.V.

Message:

TRANSMARE® 35HNF30-0.001 is a 30% bamboo fiber reinforced polypropylene homopolymer.

General Information			
Filler / Reinforcement	Bamboo Fiber, 30% filler by weight		
Features	Homopolymer		
	Updatable resources		
	Recyclable materials		
Forms	Particle		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Density	1.01	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (190°C/5.0 kg)	9.5	g/10 min	ISO 1133
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D)	73		ISO 868
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus (4.00 mm)	3360	MPa	ISO 527-2/1
Tensile Stress			ISO 527-2/50
Yield, 4.00mm	33.0	MPa	ISO 527-2/50
Fracture, 4.00mm	33.0	MPa	ISO 527-2/50
Tensile Strain			ISO 527-2/50
Yield, 4.00mm	2.0	%	ISO 527-2/50
Fracture, 4.00mm	2.1	%	ISO 527-2/50
Flexural Modulus	3430	MPa	ISO 178
Flexural Stress	54.0	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
0°C	2.4	kJ/m ²	ISO 179/1A
23°C	2.9	kJ/m ²	ISO 179/1A
Charpy Unnotched Impact Strength			ISO 179/1U
-40°C	5.5	kJ/m ²	ISO 179/1U
23°C	7.8	kJ/m ²	ISO 179/1U
Notched Izod Impact (23°C)	2.9	kJ/m ²	ISO 180/1A
Unnotched Izod Impact Strength (23°C)	8.1	kJ/m ²	ISO 180/1U
Thermal	Nominal Value	Unit	Test Method

Heat Deflection Temperature			
0.45 MPa, not annealed	138	°C	ISO 75-2/B
1.8 MPa, not annealed	81.0	°C	ISO 75-2/A
Vicat Softening Temperature	160	°C	ISO 306/A
Injection	Nominal Value	Unit	
Rear Temperature	150	°C	
Middle Temperature	160	°C	
Front Temperature	175	°C	
Nozzle Temperature	180	°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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