

TRANSMARE® 19HNF30-0.001

Polypropylene Homopolymer

Transmare Compounding B.V.

Message:

TRANSMARE® 19HNF30-0.001 is a 30% bamboo fibre reinforced polypropylene homopolymer.

General Information			
Filler / Reinforcement	Bamboo Fiber,30% Filler by Volume		
Features	Copolymer		
	Recyclable Material		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	1.02	g/cm³	ISO 1183
Melt Mass-Flow Rate (MFR)			ISO 1133
190°C/2.16 kg	4.0	g/10 min	
190°C/5.0 kg	14	g/10 min	
Hardness	Nominal Value	Unit	Test Method
Shore Hardness (Shore D)	72		ISO 868
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus (4.00 mm)	3700	MPa	ISO 527-2/50
Tensile Stress (Break, 4.00 mm)	44.0	MPa	ISO 527-2/50
Tensile Strain (Break, 4.00 mm)	2.5	%	ISO 527-2/50
Flexural Modulus ¹	3700	MPa	ISO 178
Flexural Stress ²	61.0	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179/1A
-40°C	2.2	kJ/m²	
-20°C	2.2	kJ/m²	
0°C	2.5	kJ/m²	
23°C	3.2	kJ/m²	
Notched Izod Impact Strength			ISO 180/1A
-40°C	2.5	kJ/m²	
-20°C	2.5	kJ/m²	
0°C	2.7	kJ/m²	
23°C	3.4	kJ/m²	
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, Unannealed	135	°C	ISO 75-2/B

1.8 MPa, Unannealed	90.0	°C	ISO 75-2/A
Vicat Softening Temperature	160	°C	ISO 306/A50
Injection	Nominal Value	Unit	
Rear Temperature	165	°C	
Middle Temperature	175	°C	
Front Temperature	185	°C	
Nozzle Temperature	190	°C	
Mold Temperature	40.0 to 60.0	°C	
Injection Rate	Moderate		
NOTE			
1.	2.0 mm/min		
2.	2.0 mm/min		

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