

TRANSMARE® BIO 18LANF20-0.001

Polylactic Acid

Transmare Compounding B.V.

Message:

TRANSMARE® BIO-18LANF20-0.001 is a 20% bamboo fiber reinforced PLA based biopolymer. It combines a very high stiffness with good flow.

General Information			
Filler / Reinforcement	Bamboo Fiber, 20% filler by weight		
Features	Rigidity, high		
	Updatable resources		
	Recyclable materials		
	Good liquidity		
Forms	Particles		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Density	1.29	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	10	g/10 min	ISO 1133
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D, Injection Molded)	83		ISO 868
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus (23°C, 4.00 mm, Injection Molded)	5150	MPa	ISO 527-2/1
Tensile Stress (Break, 4.00 mm, Injection Molded)	60.0	MPa	ISO 527-2/50
Tensile Strain (Break, 4.00 mm, Injection Molded)	1.6	%	ISO 527-2/50
Flexural Modulus (Injection Molded)	5230	MPa	ISO 178
Flexural Stress (Injection Molded)	93.0	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179/1A
-40°C, injection molding	2.3	kJ/m ²	ISO 179/1A
0°C, injection molding	2.6	kJ/m ²	ISO 179/1A
23°C, injection molding	2.6	kJ/m ²	ISO 179/1A
Charpy Unnotched Impact Strength			ISO 179/1U
-40°C, injection molding	8.7	kJ/m ²	ISO 179/1U
23°C, injection molding	8.5	kJ/m ²	ISO 179/1U
Notched Izod Impact (23°C, Injection Molded)	1.6	kJ/m ²	ISO 180/1A

Unnotched Izod Impact Strength (23°C, Injection Molded)	8.7	kJ/m ²	ISO 180/1U
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, not annealed	54.0	°C	ISO 75-2/B
1.8 MPa, not annealed	51.0	°C	ISO 75-2/A
Vicat Softening Temperature	68.0	°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	25.0	°C	
Injection Rate	Moderate		
Injection instructions			

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

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