

TRANSMARE® BIO 35MI-10NF30-0.001

Polylactic Acid

Transmare Compounding B.V.

Message:

TRANSMARE® BIO 35MI-10NF30-0.001 is a 30% bamboo reinforced PLA INGEO™ based impact modified biopolymer with high stiffness, good flow and impact properties.

General Information			
Filler / Reinforcement	Bamboo Fiber, 30% filler by weight		
Additive	Impact modifier		
Features	Impact modification		
	Rigidity, high		
	Impact resistance, good		
	Updatable resources		
	Recyclable materials		
	Good liquidity		
Forms	Particles		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Density	1.30	g/cm³	ISO 1183
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	9.0	g/10 min	ISO 1133
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D, Injection Molded)	77		ISO 868
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus (23°C, 4.00 mm, Injection Molded)	5040	MPa	ISO 527-2/1
Tensile Stress (Break, 4.00 mm, Injection Molded)	41.0	MPa	ISO 527-2/50
Tensile Strain (Break, 4.00 mm, Injection Molded)	1.5	%	ISO 527-2/50
Flexural Modulus (Injection Molded)	4930	MPa	ISO 178
Flexural Stress (Injection Molded)	< 61.0	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179/1A
-40°C, injection molding	2.8	kJ/m²	ISO 179/1A
0°C, injection molding	3.0	kJ/m²	ISO 179/1A
23°C, injection molding	3.5	kJ/m²	ISO 179/1A
Charpy Unnotched Impact Strength			ISO 179/1U
-40°C, injection molding	7.3	kJ/m²	ISO 179/1U

23°C, injection molding	8.6	kJ/m ²	ISO 179/1U
Notched Izod Impact (23°C, Injection Molded)	4.0	kJ/m ²	ISO 180/1A
Unnotched Izod Impact Strength (23°C, Injection Molded)	8.8	kJ/m ²	ISO 180/1U
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, not annealed	57.0	°C	ISO 75-2/B
1.8 MPa, not annealed	52.0	°C	ISO 75-2/A
Injection	Nominal Value	Unit	
Rear Temperature	165	°C	
Middle Temperature	175	°C	
Front Temperature	185	°C	
Nozzle Temperature	190	°C	
Mold Temperature	35.0	°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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