

TRANSMARE® BIO 35LANF30-0.101

Polylactic Acid

Transmare Compounding B.V.

Message:

TRANSMARE® BIO-35LANF30-0.101 is a 30% BF-K100 bamboo fiber reinforced PLA based biopolymer. It combines a very high stiffness with good flow.

General Information			
Filler / Reinforcement	Bamboo Fiber, 30% 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	1.30	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	21	g/10 min	ISO 1133
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D, Injection Molded)	84		ISO 868
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus (23°C, 4.00 mm, Injection Molded)	5250	MPa	ISO 527-2/1
Tensile Stress (Break, 4.00 mm, Injection Molded)	57.0	MPa	ISO 527-2/50
Tensile Strain (Break, 4.00 mm, Injection Molded)	1.5	%	ISO 527-2/50
Flexural Modulus (Injection Molded)	4750	MPa	ISO 178
Flexural Stress (Injection Molded)	< 58.0	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179/1A
-40°C, injection molding	1.4	kJ/m ²	ISO 179/1A
23°C, injection molding	1.4	kJ/m ²	ISO 179/1A
Charpy Unnotched Impact Strength			ISO 179/1U
-40°C, injection molding	7.8	kJ/m ²	ISO 179/1U
23°C, injection molding	7.3	kJ/m ²	ISO 179/1U
Notched Izod Impact			ISO 180/1A
-40°C, injection molding	2.0	kJ/m ²	ISO 180/1A
23°C, injection molding	1.9	kJ/m ²	ISO 180/1A
Unnotched Izod Impact Strength			ISO 180/1U

-40°C, injection molding	8.5	kJ/m ²	ISO 180/1U
23°C, injection molding	7.3	kJ/m ²	ISO 180/1U
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, not annealed	52.0	°C	ISO 75-2/B
1.8 MPa, not annealed	54.0	°C	ISO 75-2/A
Vicat Softening Temperature	67.0	°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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Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

