

TRANSMARE® BIO 35LA-0.001

Polylactic Acid

Transmare Compounding B.V.

Message:

TRANSMARE® BIO 35LA-0.001 is a PLA INGEO™ based biopolymer with good flow.

General Information			
Features	Updatable resources		
	Recyclable materials		
	Good liquidity		
	Biodegradable		
Forms	Particles		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Density	1.25	g/cm³	ISO 1183
Melt Mass-Flow Rate (MFR)			ISO 1133
190°C/2.16 kg	35	g/10 min	ISO 1133
210°C/2.16 kg	81	g/10 min	ISO 1133
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D)	82		ISO 868
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus (23°C, 4.00 mm, Injection Molded)	3420	MPa	ISO 527-2/1
Tensile Stress			ISO 527-2/50
Yield, 4.00mm, injection molding	72.0	MPa	ISO 527-2/50
Fracture, 4.00mm, injection molding	70.0	MPa	ISO 527-2/50
Tensile Strain			ISO 527-2/50
Yield, 4.00mm, injection molding	2.8	%	ISO 527-2/50
Fracture, 4.00mm, injection molding	3.0	%	ISO 527-2/50
Flexural Modulus (Injection Molded)	3460	MPa	ISO 178
Flexural Stress (Injection Molded)	< 100	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179/1A
-40°C, injection molding	1.6	kJ/m²	ISO 179/1A
0°C, injection molding	1.6	kJ/m²	ISO 179/1A
23°C, injection molding	1.5	kJ/m²	ISO 179/1A
Charpy Unnotched Impact Strength			ISO 179/1U
-40°C, injection molding	25	kJ/m²	ISO 179/1U
23°C, injection molding	18	kJ/m²	ISO 179/1U

Notched Izod Impact (23°C, Injection Molded)	2.7	kJ/m ²	ISO 180/1A
Unnotched Izod Impact Strength (23°C, Injection Molded)	16	kJ/m ²	ISO 180/1U
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, not annealed	51.0	°C	ISO 75-2/B
1.8 MPa, not annealed	48.0	°C	ISO 75-2/A
Vicat Softening Temperature	62.5	°C	ISO 306/A
Injection	Nominal Value	Unit	
Rear Temperature	165	°C	
Middle Temperature	185	°C	
Front Temperature	195	°C	
Nozzle Temperature	205	°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

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