

EcoVid 43TF

Polylactic Acid
Greener Polymers Inc.

Message:

EcoVid-43TF is a Ingeo PLA and bio-composite blend material grade suitable for Thermoforming processes. The material could be frozen to -32C.
Composition: Ingeo PLA content with bio-degradable and compostable additives.
Applications: EcoVid-43TF is a Thermoforming blend suitable for ambient Trays, plates, bakery, confection packaging, food packaging in general, etc.

General Information			
Additive	Unspecified additive		
Features	Updatable resources		
	Biodegradable		
Uses	Thermoforming Applications		
	Non-specific food applications		
	Food packaging		
	Food service sector		
Processing Method	Thermoforming		
Physical	Nominal Value	Unit	Test Method
Density	1.27	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR)			ASTM D1238
190°C/2.16 kg	6.0	g/10 min	ASTM D1238
210°C/2.16 kg	6.0	g/10 min	ASTM D1238
Molding Shrinkage - Flow	0.30 - 0.50	%	
Relative Viscosity	2.5		
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield)	62.1	MPa	ASTM D638
Tensile Elongation (Break)	3.5	%	ASTM D638
Flexural Strength	108	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	16	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Glass Transition Temperature	55.0 - 60.0	°C	ASTM D3418
Vicat Softening Temperature	130	°C	ASTM D1525
Melting Temperature	130 - 180	°C	ASTM D3418
Peak Crystallization Temperature (DSC)	155 - 170	°C	ASTM D3418
Heat Distortion	80 - 110	°C	ASTM E2092
Clarity	NIL		
Additional Information			
Vapour Barrier Transmission Rate (ASTM E380): 20.1636 (sd +/- 0.3537)Oxygen Permeability (ASTM E380): 53.481 (sd +/- 0.249)			

Injection	Nominal Value	Unit
Hopper Temperature	145 - 155	°C
Rear Temperature	145 - 165	°C
Middle Temperature	165 - 195	°C
Front Temperature	165 - 195	°C
Nozzle Temperature	165 - 180	°C
Back Pressure	1.03 - 2.76	MPa
Screw Speed	35 - 65	rpm
Injection instructions		

Mould Cycle Time: 19-35 secs

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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

