EcoVid 43TFH

Polylactic Acid

Greener Polymers Inc.

Message:

EcoVid-43TFH is a General Purpose Ingeo PLA and bio-composite material blend suitable for Thermoforming processes with a High Heat resistance index. The material, rated for 178F/80°C and could be frozen to -32°C. Mould crystallization will increase the heat deflection from 80°C to 110°C+ depending on the application.
Composition: Ingeo PLA content with bio-degradable and compostable HDT additives.
Applications: EcoVid-43TFH is suitable for Thermoformed Hot coffee cups, soup bowls, noodle bowls, hot food platters and trays, processed food in containers to be reheated, etc.

General Information			
Additive	Unspecified additive		
Features	Updatable resources Heat resistance, high Biodegradable		
Uses	Thermoforming Applications Cup Non-specific food applications Food service sector Food container General		
Processing Method	Thermoforming		
Physical	**Nominal Value**	**Unit**	**Test Method**
Density	1.27	g/cm³	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

Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

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