LACEA® H-100J (Stretched)

Polylactic Acid

Mitsui Chemicals, Inc.

Message:

LACEA®H-100J (Stretched) is a polylactic acid (PLA) material. This product is available in the Asia-Pacific region and is processed by blow molding or injection molding. LACEA®The main characteristics of H-100J (Stretched) are: environmental protection/green.
Typical application areas include:
bag/lining
packing
Movie
container
non-woven fabric

General Information	
Features	Biodegradable
Uses	Packaging
	Films
	Bags
	Container
	Non-woven fabric
Appearance	Clear/transparent
Forms	Particle
Processing Method	Blow film
	Injection molding

Physical	Nominal Value	Unit	Test Method
Density	1.26	g/cm³	ASTM D1505
Hardness	**Nominal Value**	**Unit**	**Test Method**
Rockwell Hardness			ASTM D785
L scale	84		ASTM D785
Class r	115		ASTM D785
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Strength	68.0	MPa	ASTM D638
Tensile Elongation (Yield)	4.0	%	ASTM D638
Flexural Modulus	3700	MPa	ASTM D790
Flexural Strength	98.0	MPa	ASTM D790
Films	**Nominal Value**	**Unit**	**Test Method**
Film Thickness - Tested	25	µm	
Secant Modulus - MD	3850	MPa	ASTM D882
Tensile Strength - MD (Yield)	105	MPa	ASTM D882
Tensile Elongation - MD (Break)	140	%	ASTM D882

Elmendorf Tear Strength - TD	2.7	g	ASTM D1922
Water Vapor Transmission	160	g/m²/24 hr	ASTM E96
Impact	**Nominal Value**	**Unit**	**Test Method**
Notched Izod Impact	29	J/m	ASTM D256
Thermal	**Nominal Value**	**Unit**	**Test Method**
Deflection Temperature Under Load (0.45 MPa, Unannealed)	55.0	°C	ASTM D648
Vicat Softening Temperature	58.0	°C	ASTM D1525
Optical	**Nominal Value**	**Unit**	**Test Method**
Haze (25.0 µm)	93	%	ASTM D1003

Additional Information

The value listed as Oxygen Permeability, ASTM D3985, was tested in accordance with JIS-K7126.The value listed as Water Vapor Transmission, ASTM E96, was tested in accordance with JIS-K7129.The value listed as Density, ASTM D1505, was tested in accordance with JIS-K6758.The value listed as Tensile Strength @ Yld MD, ASTM D882, was tested in accordance with JIS-C2318.The value listed as Elongation @ Break MD, ASTM D882, was tested in accordance with JIS-C2318.The value listed as Secant Modulus MD, ASTM D882, was tested in accordance with JIS-C2318.The value listed as Elmendorf Tear St TD, ASTM D1922, was tested in accordance with JIS-K7128.The value listed as Haze, ASTM D1003, was tested in accordance with JIS-K6714.Oxygen Permeability, JIS-K7126. 23°C, Method A: 450 cm³/m²/day/atmNitrogen Permeability, JIS-K7126. 23°C, Method A: 80 cm³/m²/day/atmCO2 Permeability, JIS-K7126. 23°C, Method A: 1700 cm³/m²/day/atmHeat Shrinkage, 100°C, 1hr, MD: 2.4%Heat Shrinkage, 100°C, 1hr, TD: 0.9%

Injection	Nominal Value	Unit
Rear Temperature	150 - 160	°C
Middle Temperature	160 - 180	°C
Front Temperature	170 - 190	°C
Nozzle Temperature	160 - 180	°C
Mold Temperature	20.0 - 30.0	°C

Injection instructions

Cooling Time: 30 to 40 sec

Recommended distributors for this material

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