Ingeo™ 2500HP

Polylactic Acid

NatureWorks® LLC

Message:

Ingeo 2500HP is a high viscosity product from NatureWorks LLC, designed for extrusion applications. It is designed to crystallize during processing, leading to higher heat deflection temperatures in opaque applications.

The variety of products made with 2500HP is widely varied and growing. Applications include crystalline sheet for cards, graphic arts and signage.

General Information				
Features	Updatable resources			
	Compliance of Food Exposure			
	Viscosity, High			
Uses	General			
	Stationery			
	Decorative parts			
Agency Ratings	EEC 94/62/EC Article 11			
	FDA Food Exposure, Not Rated			
	Europe 10/1/2011 12:00:00 AM			
Processing Method	Extrusion			
Physical	Nominal Value	Unit	Test Method	
Specific Gravity	1.24	g/cm³	ASTM D792	
Melt Mass-Flow Rate (MFR) (210°C/2.16				
kg)	8.0	g/10 min	ASTM D1238	
Molding Shrinkage - Flow				
1	1.7 - 1.8	%		
2	0.30 - 0.40	%		
Relative Viscosity ³	4.0		ASTM D5225	
Mechanical	Nominal Value	Unit	Test Method	
Tensile Strength			ASTM D638	
Yield ⁴	65.5	MPa	ASTM D638	
Yield ⁵	64.1	MPa	ASTM D638	
Tensile Elongation			ASTM D638	
Fracture ⁶	4.3	%	ASTM D638	
Fracture ⁷	3.6	%	ASTM D638	
Flexural Modulus			ASTM D790	
8	4450	MPa	ASTM D790	
9	3640	MPa	ASTM D790	

126	MPa	ACTM D700
		ASTM D790
113	MPa	ASTM D790
Nominal Value	Unit	Test Method
		ASTM D256
40	J/m	ASTM D256
19	J/m	ASTM D256
Nominal Value	Unit	Test Method
		ASTM E2092
144	°C	ASTM E2092
54.0	°C	ASTM E2092
180	°C	
Nominal Value		
Opaque		
Transparent		
Nominal Value	Unit	
< 0.025	%	
45.0	°C	
191	°C	
199	°C	
210	°C	
:1 to 32:1Compression ratio of 2.5:1 to 3	:1Note: Amorphous polymer must b	pe dried below 120°F (50°C).
Molded crystalline with 120°C		
mold temperature where formula		
mold temperature		
Measured at 1.0 g/dL in chloroform at 30°C		
mold temperature where formula		
included 1wt% nucleating agent (LAK-301 from Takemoto Oil & Fat)		
Molded amorphous with 26°C mold temperature		
Molded crystalline with 120°C		
	Nominal Value 40 19 Nominal Value 144 54.0 180 Nominal Value Opaque Transparent Nominal Value < 0.025 45.0 191 199 210 210 210 210 210 21	Nominal Value 40 J/m 19 J/m Nominal Value Unit 144 °C 54.0 °C 180 °C Nominal Value Opaque Transparent Nominal Value Unit < 0.025 % 45.0 °C 191 °C 210 °C Anorphous polymer must be an anorphous with 120°C mold temperature where formula included 1wt% nucleating agent (LAK-301 from Takemoto Oil & Fat) Molded crystalline with 120°C mold temperature where formula included 1mt% nucleating agent (LAK-301 from Takemoto Oil & Fat) Molded amorphous with 26°C mold temperature where formula included 1wt% nucleating agent (LAK-301 from Takemoto Oil & Fat) Molded amorphous with 120°C mold temperature where formula included 1wt% nucleating agent (LAK-301 from Takemoto Oil & Fat) Molded amorphous with 120°C mold temperature where formula included 1wt% nucleating agent (LAK-301 from Takemoto Oil & Fat) Molded amorphous with 26°C mold temperature where formula included 1wt% nucleating agent (LAK-301 from Takemoto Oil & Fat) Molded amorphous with 26°C mold temperature

7.	Molded amorphous with 26°C mold temperature
8.	Molded crystalline with 120°C mold temperature where formula included 1wt% nucleating agent (LAK-301 from Takemoto Oil & Fat)
9.	Molded amorphous with 26°C mold temperature
10.	Molded crystalline with 120°C mold temperature where formula included 1wt% nucleating agent (LAK-301 from Takemoto Oil & Fat)
11.	Molded amorphous with 26°C mold temperature
12.	Molded crystalline with 120°C mold temperature where formula included 1wt% nucleating agent (LAK-301 from Takemoto Oil & Fat)
13.	Molded amorphous with 26°C mold temperature
14.	Molded crystalline with 120°C mold temperature where formula included 1wt% nucleating agent (LAK-301 from Takemoto Oil & Fat)
15.	Molded amorphous with 26°C mold temperature
16.	Molded crystalline with 120°C mold temperature where formula included 1wt% nucleating agent (LAK-301 from Takemoto Oil & Fat)
17.	Molded crystalline with 120°C mold temperature where formula included 1wt% nucleating agent (LAK-301 from Takemoto Oil & Fat)
18.	Molded amorphous with 26°C mold temperature

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