

NatureWorks® Ingeo™ 8052D Foam Grade Biopolymer

Category : Polymer , Renewable/Recycled Polymer , Thermoplastic , Polylactic Acid (PLA) Biopolymer

Material Notes:

Ingeo 8052D can be converted into an expanded foam sheet with use temperatures up to 77°F (25°C). This foam is lightweight, strong and suitable for packaging fresh meat and vegetables. In order to extrude foam with the desired expansion properties, this grade must be modified with a branching agent such as Joncryl® 4368C.

Order this product through the following link:

http://www.lookpolymers.com/polymer_NatureWorks-Ingeo-8052D-Foam-Grade-Biopolymer.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.24 g/cc	1.24 g/cc	ASTM D792
Viscosity Measurement	14 @Temperature 30.0 °C	14 @Temperature 86.0 °F	Relative Viscosity; ASTM D5225
Melt Flow	14 g/10 min @Load 2.16 kg, Temperature 210 °C	14 g/10 min @Load 4.76 lb, Temperature 410 °F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	62.0 MPa	8990 psi	ASTM D882
Elongation at Break	3.5 %	3.5 %	ASTM D882
Flexural Strength	108 MPa	15700 psi	ASTM D790
Flexural Modulus	3.55 GPa	515 ksi	ASTM D790
Izod Impact, Notched	0.1600 J/cm	0.2997 ft-lb/in	ASTM D256

Thermal Properties	Metric	English	Comments
Melting Point	145 - 160 °C	293 - 320 °F	Peak; ASTM D3418
Glass Transition Temp, Tg	55.0 - 60.0 °C	131 - 140 °F	ASTM D3418

Optical Properties	Metric	English	Comments
Transmission, Visible	90 %	90 %	Thickness Unknown

Processing Properties	Metric	English	Comments
Feed Temperature	165 °C	329 °F	
Melt Temperature	200 °C	392 °F	

Processing Properties	Metric	English	Comments
Drying Temperature	@Time 10800 sec	@Time 3.00 hour	
Dew Point	-40.0 °C	-40.0 °F	
Drying Air Flow Rate	>= 14.2 l/min	>= 0.500 ft ³ /min (CFM)	
Screw Speed	100 - 175 rpm	100 - 175 rpm	

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