

Ingeo™ 8052D

Polylactic Acid

NatureWorks® LLC

Message:

Ingeo 8052D - a product from NatureWorks LLC - 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.

General Information			
Features	Comstable		
	Foamable property		
	Updatable resources		
	Good strength		
	Biodegradable		
	Compliance of Food Exposure		
Uses	Foam		
	Food packaging		
	Bracket tray		
Agency Ratings	ASTM D 6400		
	EN 13432		
	EU 94/62/EC		
	FDA Food Exposure, Not Rated		
	Europe 10/1/2011 12:00:00 AM		
Appearance	Clear/transparent		
Forms	Particle		
Processing Method	Foam extrusion molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.24	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (210°C/2.16 kg)	14	g/10 min	ASTM D1238
Molding Shrinkage - Flow	0.30 - 0.50	%	
Relative Viscosity	3.30		Internal method
Clarity	Transparent		
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield)	62.1	MPa	ASTM D638
Tensile Elongation (Break)	3.5	%	ASTM D638
Flexural Modulus	3550	MPa	ASTM D790
Flexural Strength	108	MPa	ASTM D790

Thermal	Nominal Value	Unit	Test Method
Glass Transition Temperature	55.0 - 65.0	°C	ASTM D3418
Peak Crystallization Temperature (DSC)	145 - 160	°C	ASTM D3418
Extrusion	Nominal Value	Unit	
Drying Temperature	73.9	°C	
Drying Time	3.0	hr	
Suggested Max Moisture	< 5.0E-3	%	
Hopper Temperature	21.1	°C	
Cylinder Zone 1 Temp.	166	°C	
Cylinder Zone 2 Temp.	193	°C	
Cylinder Zone 3 Temp.	204	°C	
Adapter Temperature	204	°C	
Melt Temperature	199	°C	
Back Pressure	0.345 - 0.689	MPa	
Extrusion instructions			

Screw Speed: 100 to175 rpm

The information and data on this page are provided by manufacturers and document providers. SHANGHAI SUSHENG assumes no legal liability. It is strongly recommended to verify all technical data with material suppliers before final material selection. All rights belong to the original authors. If any infringement occurs, please contact us immediately.

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

