

## INNATE™ TH60 Precision Packaging Resin

### The Dow Chemical Company - Precision Packaging Resin

Tuesday, November 5, 2019

#### **General Information**

#### **Product Description**

INNATE™ TH60 Precision Packaging Resin is designed for exceptional toughness in combination with sealing performance while also delivering robust processability. It has exceptional low-temperature toughness and flex-crack resistance, making it a versatile resin that can meet the needs of demanding end-use applications.

#### Complies with:

- Europe Commission Regulation (EU) No 10/2011
- U.S. FDA FCN 424
- JHOSPA (Japan Hygienic Olefin and Styrene Plastics Association)

Consult the regulations for complete details.

General				
Material Status	Commercial: Active			
Availability	<ul><li>Asia Pacific</li><li>Europe</li></ul>	<ul><li>Latin America</li><li>North America</li></ul>		
Agency Ratings	• EU 2011/10/EC	• FDA FCN 424	<ul> <li>JHOSPA Unspecified Rating</li> </ul>	
Forms	Pellets			

ASTM & ISO Properties 1					
Physical	Nominal Value	Unit	Test Method		
Density / Specific Gravity	0.914		ASTM D792		
Melt Mass-Flow Rate (190°C/2.16 kg)	0.85	g/10 min	ASTM D1238		
Films	Nominal Value	Unit	Test Method		
Film Thickness - Tested	2	mil			
Film Puncture Energy	92.9	in·lb			
Film Puncture Force	23.8	lbf			
Film Puncture Resistance	318	ft·lb/in³			
Secant Modulus - 2% Secant, MD	21000	psi	ASTM D882		
Secant Modulus - 2% Secant, TD	24500	psi	ASTM D882		
Tensile Strength - MD (Yield)	1210	psi	ASTM D882		
Tensile Strength - TD (Yield)	1230	psi	ASTM D882		
Tensile Strength - MD (Break)	7430	psi	ASTM D882		
Tensile Strength - TD (Break)	7530	psi	ASTM D882		
Tensile Elongation - MD (Break)	580	%	ASTM D882		
Tensile Elongation - TD (Break)	660	%	ASTM D882		
Dart Drop Impact <sup>2</sup>	2100	g	ASTM D1709		
Elmendorf Tear Strength - MD	520	g	ASTM D1922		
Elmendorf Tear Strength - TD	820	g	ASTM D1922		
Thermal	Nominal Value	Unit	Test Method		
Vicat Softening Temperature	208	°F	ASTM D1525		
Melting Temperature (DSC)	253	°F	Internal Method		
Optical	Nominal Value	Unit	Test Method		
Gloss (45°)	51		ASTM D2457		
Haze	14.0	%	ASTM D1003		



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#### **Additional Information**

Fabrication Conditions for 2 mil monolayer blown film:

Die Diameter: 8 in.Screw Type: DSB IIDie Gap: 90 mil

• Melt Temperature: 433 °F

• Output: 10.3 lb/hr/in. of die circumference

Screw Size: 3.5 in.
Blow-Up Ratio: 2.5 to 1
Screw Speed: 35 rpm
Frost Line Height: 40 in.

#### **Notes**

<sup>1</sup> Typical properties: these are not to be construed as specifications.

<sup>2</sup> Method A



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