

Technical Information



Experimental XUS 60030.01

Experimental Low Density Polyethylene Resin

Overview

New Experimental PCR-rich resin for film applications that require improved homogeneity and consistency over other film-based PCR resin offerings.

XUS 60030.01 PCR-rich solution is designed with 70% recycled content for use in shrink film and other secondary and tertiary film applications.*

Optimum gauge range: 2.0-6.0 mil

Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
Density	0.925 g/cm ³	0.925 g/cm ³	ASTM D792
Melt Index (190°C/2.16 kg)	0.53 g/10 min	0.53 g/10 min	ASTM D1238
Films	Nominal Value (English)	Nominal Value (SI)	Test Method
Film Thickness - Tested	2.3 mil	58 µm	
Film Puncture Resistance (2.3 mil (58 µm))	29.5 ft-lb/in ³	2.44 J/cm ³	Dow Method
Film Toughness			ASTM D882
MD : 2.3 mil (58 µm)	314 ft-lb/in ³	26.0 J/cm ³	
TD : 2.3 mil (58 µm)	800 ft-lb/in ³	66.2 J/cm ³	
Tensile Strength			ASTM D882
MD : Yield, 2.3 mil (58 µm)	1540 psi	10.6 MPa	
TD : Yield, 2.3 mil (58 µm)	1520 psi	10.5 MPa	
MD : Break, 2.3 mil (58 µm)	2610 psi	18.0 MPa	
TD : Break, 2.3 mil (58 µm)	2900 psi	20.0 MPa	
Tensile Elongation			ASTM D882
MD : Break, 2.3 mil (58 µm)	160 %	160 %	
TD : Break, 2.3 mil (58 µm)	570 %	570 %	
Dart Drop Impact ¹ (2.3 mil (58 µm))	160 g	160 g	ASTM D1709
Elmendorf Tear Strength			ASTM D1922
MD : 2.3 mil (58 µm)	91 g	91 g	
TD : 2.3 mil (58 µm)	560 g	560 g	
Thermal	Nominal Value (English)	Nominal Value (SI)	Test Method
Vicat Softening Temperature	211 °F	99.5 °C	ASTM D1525
Melting Temperature (DSC)	250 °F	121 °C	Dow Method
Optical	Nominal Value (English)	Nominal Value (SI)	Test Method
Gloss (45°, 2.28 mil (58.0 µm))	25	25	ASTM D2457
Haze (2.28 mil (58.0 µm))	39.3 %	39.3 %	ASTM D1003

Legal Statement

*This product is not approved for preparation of packaging components that will be in direct contact with food, beverages, animal feed, seeds for producing food or animal feed, or other materials that will be utilized to manufacture primary packaging components for these applications. Dow reserves the right to review applications utilizing post-consumer recyclable (PCR) materials. Customers are requested to complete a PCR Application Screen Form prior to sampling or sales. Please contact Dow representative for details.

Extrusion Notes

Fabrication Conditions For Blown Film:

- Screw Size: 2.5 in. (63.5 mm); 30:1 L/D
- Screw Type: Maddoc Barrier Screw
- Die Gap: 40 mil (1.02 mm)
- Melt Temperature: 420°F (215°C)
- Output: 8 lb/hr/in. of die circumference
- Die Diameter: 8 in.
- Blow-Up Ratio: 2.5:1





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Notes

These are typical properties only and are not to be construed as specifications. Users should confirm results by their own tests.

¹ Method A



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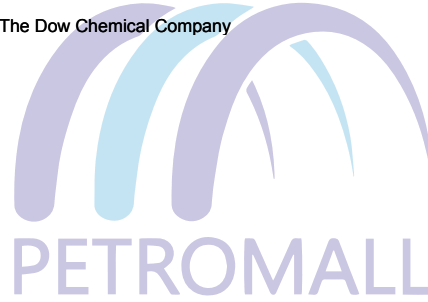
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