

Technical Information



DOW™ LDPE 662I

Low Density Polyethylene Resin

Overview

- Designed for enhanced bubble stability
- High melt strength
- Optimum gauge range: 1.5 - 5.0 mil

Complies with:

- U.S. FDA 21 CFR 177.1520(c) 2.2
- EU, No 10/2011
- Canadian HPFB No Objection

Consult the regulations for complete details.

Additive

- Antiblock: No
- Slip: No
- Processing Aid: No

Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
Density	0.919 g/cm³	0.919 g/cm³	ASTM D792
Base Density ¹	0.919 g/cm³	0.919 g/cm³	Dow Method
Melt Index (190°C/2.16 kg)	0.47 g/10 min	0.47 g/10 min	ASTM D1238
Films	Nominal Value (English)	Nominal Value (SI)	Test Method
Film Thickness - Tested	2.0 mil	51 µm	
Film Puncture Resistance (2.0 mil (51 µm))	50.0 ft-lb/in³	4.14 J/cm³	Dow Method
Film Toughness			ASTM D882
MD : 2.0 mil (51 µm)	1540 ft-lb/in³	128 J/cm³	
TD : 2.0 mil (51 µm)	1920 ft-lb/in³	159 J/cm³	
Tensile Strength			ASTM D882
MD : Yield, 2.0 mil (51 µm)	1930 psi	13.3 MPa	
TD : Yield, 2.0 mil (51 µm)	1560 psi	10.7 MPa	
MD : Break, 2.0 mil (51 µm)	3420 psi	23.6 MPa	
TD : Break, 2.0 mil (51 µm)	3490 psi	24.1 MPa	
Tensile Elongation			ASTM D882
MD : Break, 2.0 mil (51 µm)	340 %	340 %	
TD : Break, 2.0 mil (51 µm)	560 %	560 %	
Dart Drop Impact (2.0 mil (51 µm))	280 g	280 g	ASTM D1709A
Elmendorf Tear Strength			ASTM D1922
MD : 2.0 mil (51 µm)	130 g	130 g	
TD : 2.0 mil (51 µm)	110 g	110 g	
Thermal	Nominal Value (English)	Nominal Value (SI)	Test Method
Vicat Softening Temperature	199 °F	92.8 °C	ASTM D1525
Melting Temperature (DSC)	226 °F	108 °C	Dow Method
Optical	Nominal Value (English)	Nominal Value (SI)	Test Method
Gloss (45°, 2.00 mil (50.8 µm))	23	23	ASTM D2457
Haze (2.00 mil (50.8 µm))	26.0 %	26.0 %	ASTM D1003
Extrusion	Nominal Value (English)	Nominal Value (SI)	
Melt Temperature	421 °F	216 °C	



Extrusion Notes

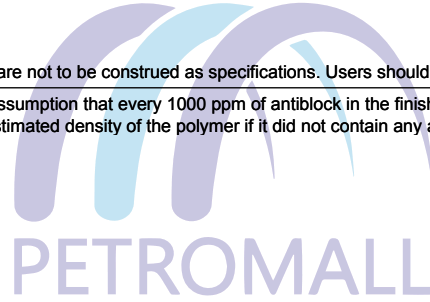
Fabrication Conditions For Blown Film:

- Screw Size: 2.5 in. (63.5 mm); 30:1 L/D/Size
- Screw Type: SFDM
- Die Gap: 40 mil (1.02 mm)
- Melt Temperature: 421 °F (216 °C)
- Output: 10 lb/hr/in. of die circumference
- Die Diameter: 6 in.
- Blow-Up Ratio: 2.5:1
- Screw Speed: 92 rpm
- Frost Line Height: 30 in. (762 mm)

Notes

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

¹ Base density is estimated using the assumption that every 1000 ppm of antiblock in the finished product raises the density of the polymer by 0.0006 g/cm³. Base density is the estimated density of the polymer if it did not contain any antiblock.



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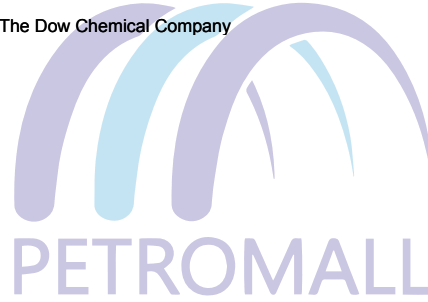
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