

Technical Information



DOWLEX™ 5075G

Polyethylene Resin

Overview

DOWLEX 5075G Polyethylene Resin is a blown film extrusion linear low density polyethylene resin grade suitable for high toughness and clarity film applications..

Main Characteristics:

- Linear Low Density Polyethylene/Octene Copolymer
- For high performance film applications

Complies with:

- U.S. FDA FCN 424.

Consult the regulations for complete details.

Additive

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

Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
Density	0.917 g/cm³	0.917 g/cm³	ASTM D792
Base Density ¹	0.917 g/cm³	0.917 g/cm³	Dow Method
Melt Index (190°C/2.16 kg)	1.3 g/10 min	1.3 g/10 min	ASTM D1238
Films	Nominal Value (English)	Nominal Value (SI)	Test Method
Film Thickness - Tested	1.0 mil	25 µm	
Film Puncture Energy	43.9 in-lb	4.96 J	Dow Method
Film Puncture Force	12.8 lbf	56.8 N	Dow Method
Film Puncture Resistance	272 ft-lb/in³	22.5 J/cm³	Dow Method
Film Toughness			ASTM D882
MD	1140 ft-lb/in³	94.6 J/cm³	
TD	1110 ft-lb/in³	92.1 J/cm³	
Secant Modulus			ASTM D882
1% Secant, MD	26900 psi	185 MPa	
2% Secant, MD	22400 psi	154 MPa	
1% Secant, TD	31800 psi	219 MPa	
2% Secant, TD	26800 psi	185 MPa	
Tensile Strength			ASTM D882
MD : Yield	1610 psi	11.1 MPa	
TD : Yield	1590 psi	11.0 MPa	
MD : Break	6420 psi	44.3 MPa	
TD : Break	5010 psi	34.6 MPa	
Tensile Elongation			ASTM D882
MD : Break	510 %	510 %	
TD : Break	590 %	590 %	
Dart Drop Impact	400 g	400 g	ASTM D1709A
Elmendorf Tear Strength			ASTM D1922
MD	450 g	450 g	
TD	590 g	590 g	
Thermal	Nominal Value (English)	Nominal Value (SI)	Test Method
Melting Temperature (DSC)	244 °F	118 °C	Dow Method
Optical	Nominal Value (English)	Nominal Value (SI)	Test Method
Gloss (45°)	64	64	ASTM D2457
Haze	7.51 %	7.51 %	ASTM D1003
Extrusion	Nominal Value (English)	Nominal Value (SI)	
Melt Temperature	416 °F	213 °C	



Extrusion Notes

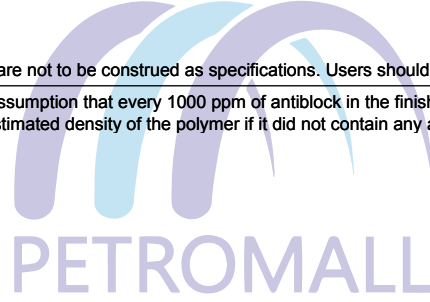
Fabrication Conditions For Blown Film:

- Die Size: 8 in.
- Screw Type: DSB II
- Die Gap: 70mil (1.8 mm)
- Melt Temperature: 416°F (223°C)
- Output: 12 lb/hr/in. of die circumference
- Die Diameter: 8 in.
- Blow-Up Ratio: 2.5 to 1
- Screw Speed: 44.3 rpm
- Frost Line Height: 45 in.

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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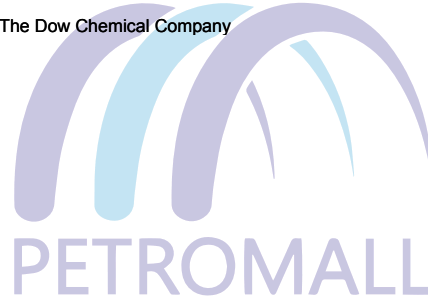
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