

DOWLEX™ 5075G

Polyethylene Resin
The Dow Chemical Company

Message:

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.

General Information			
Agency Ratings	FDA FCN 424		
Forms	Particle		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.917	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	1.3	g/10 min	ASTM D1238
Films	Nominal Value	Unit	Test Method
Film Thickness - Tested	25	µm	
Film Puncture Energy	4.96	J	Internal method
Film Puncture Force	56.8	N	Internal method
Film Puncture Resistance	22.5	J/cm ³	Internal method
Film strength			ASTM D882
MD	94.6	J/cm ³	ASTM D882
TD	92.1	J/cm ³	ASTM D882
secant modulus			ASTM D882
1% secant, MD	185	MPa	ASTM D882
2% secant, MD	154	MPa	ASTM D882
1% secant, TD	219	MPa	ASTM D882
2% secant, TD	185	MPa	ASTM D882
Tensile Strength			ASTM D882
MD: Yield	11.1	MPa	ASTM D882
TD: Yield	11.0	MPa	ASTM D882
MD: Fracture	44.3	MPa	ASTM D882
TD: Fracture	34.6	MPa	ASTM D882
Tensile Elongation			ASTM D882
MD: Fracture	510	%	ASTM D882
TD: Fracture	590	%	ASTM D882
Dart Drop Impact	400	g	ASTM D1709A
Elmendorf Tear Strength			ASTM D1922

MD	450	g	ASTM D1922
TD	590	g	ASTM D1922
Thermal	Nominal Value	Unit	Test Method
Melting Temperature (DSC)	118	°C	Internal method
Optical	Nominal Value	Unit	Test Method
Gloss (45°)	64		ASTM D2457
Haze	7.5	%	ASTM D1003
Extrusion	Nominal Value	Unit	
Melt Temperature	213	°C	
Extrusion instructions			

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.

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