

DOWLEX™ HMS 8017

Linear Low Density Polyethylene Resin

The Dow Chemical Company

Message:

DOWLEX HMS 8017 Polyethylene Resin is a Linear Low Density Polyethylene, 1-Octene Copolymer produced in Dow.

General Information			
Forms	Particle		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.918	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	0.75	g/10 min	ASTM D1238
Films	Nominal Value	Unit	Test Method
Film Thickness - Tested	51	µm	
secant modulus			ASTM D882
2% secant, MD: 51 µm	168	MPa	ASTM D882
2% secant, TD: 51 µm	176	MPa	ASTM D882
Tensile Strength			ASTM D882
MD: Yield, 51 µm	10.4	MPa	ASTM D882
TD: Yield, 51 µm	10.6	MPa	ASTM D882
MD: Fracture, 51 µm	49.2	MPa	ASTM D882
TD: Fracture, 51 µm	43.2	MPa	ASTM D882
Tensile Elongation			ASTM D882
MD: Fracture, 51 µm	630	%	ASTM D882
TD: Fracture, 51 µm	730	%	ASTM D882
Dart Drop Impact (51 µm)	420	g	ASTM D1709A
Elmendorf Tear Strength			ASTM D1922
MD : 51 µm	790	g	ASTM D1922
TD : 51 µm	1100	g	ASTM D1922
Thermal	Nominal Value	Unit	Test Method
Melting Temperature	121	°C	DSC
Optical	Nominal Value	Unit	Test Method
Gloss (45°, 51.0 µm)	82		ASTM D2457
Haze (51.0 µm)	8.4	%	ASTM D1003
Extrusion instructions			

Fabrication Conditions for Blown Film:

Screw size: 2.3 in (60 mm); 32:1 ratio L/D

Die gap: 70 mil (1.8 mm)

Melt temperature 428°F (220°C)

Output: 50 kg/h

Die Diameter: 5.9 in (150 mm)

Blow-up ratio: 2.5:1

Screw speed: 60 rpm

Frost line height: 19.7 in (50 cm)

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