

DOW™ LDPE 748I

Low Density Polyethylene Resin

The Dow Chemical Company

Message:

A low density polyethylene for stretching/cling film applications

Complies with U.S. FDA 21 CFR 177.1520 (c) 2.1

Complies with Canadian HPFB No Objection (With Limitations)

Consult the regulations for complete details

General Information			
Agency Ratings	FDA 21 CFR 177.1520(c) 2.1 HPFB (Canada) No Objection 2		
Forms	Particle		
Processing Method	Blow film		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.921	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	7.0	g/10 min	ASTM D1238
Films	Nominal Value	Unit	Test Method
Film Thickness - Tested	25	µm	
Film Puncture Resistance (25 µm)	2.65	J/cm ³	Internal method
Film strength			ASTM D882
MD : 25 µm	183	J/cm ³	ASTM D882
TD : 25 µm	156	J/cm ³	ASTM D882
Tensile Strength			ASTM D882
MD: Yield, 25 µm	10.6	MPa	ASTM D882
TD: Yield, 25 µm	9.99	MPa	ASTM D882
MD: Break, 25 µm	27.1	MPa	ASTM D882
TD: Break, 25 µm	17.5	MPa	ASTM D882
Tensile Elongation			ASTM D882
MD: Break, 25 µm	510	%	ASTM D882
TD: Break, 25 µm	640	%	ASTM D882
Dart Drop Impact (25 µm)	43	g	ASTM D1709A
Elmendorf Tear Strength			ASTM D1922
MD : 25 µm	190	g	ASTM D1922
TD : 25 µm	260	g	ASTM D1922
Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature	88.9	°C	ASTM D1525
Melting Temperature (DSC)	110	°C	Internal method
Optical	Nominal Value	Unit	Test Method

Gloss (45°, 25.4 μm)	92		ASTM D2457
Haze (25.4 μm)	1.1	%	ASTM D1003

Extrusion instructions

Fabrication Conditions For Cast Film:

Screw A: Size: 2.0 in. (51 mm); 30:1 L/D

Melt Temperature: 498°F (259°C)

Screw Speed: 47 rpm

Screw B: Size: 2.5 in. (63.5 mm); 30:1 L/D

Melt Temperature: 500°F (260°C)

Screw Speed: 31 rpm

Screw C: Size: 2.5 in. (63.5 mm); 30:1 L/D

Melt Temperature: 499°F (260°C)

Screw Speed: 33 rpm

Screw D: Size: 2.5 in. (63.5 mm); 30:1 L/D

Melt Temperature: 500°F (260°C)

Screw Speed: 33 rpm

Screw E: Size: 2.0 in. (51 mm); 30:1 L/D

Melt Temperature: 498°F (259°C)

Screw Speed: 37 rpm

Screw Type: DSB II

Die Gap: 25 mil (0.025 mm)

Chill Roll Temperature: 70 °F (21 °C)

Melt Temperature: 500 °F (260 °C)

Output: 345 lb/hr

Line Speed: 400 fpm (122 m/min)

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