



DOW Polyethylene 722

- For general purpose applications
- Complies with U.S. FDA 21 CFR 177.1520 (c) 2.1.
Consult the regulations for complete details.

Polyethylene 722 is used in flexible packaging and paperboard coating applications such as liquid/juice, laminate tube,

condiment pouches, dry foods packaging, snack foods packaging, moist foods packaging, sugar pouches, lidding stock and medical packaging. DOW LDPE extrusion

coating resins provide optimal neck-in and draw-down performance with minimal taste/odor contribution.

Physical Properties	Test Method	Values ⁽¹⁾ English (SI)
Resin Properties		
Melt Index, g/10 min	ASTM D 1238	8.0
Density, g/cc	ASTM D 792	0.918
DSC Melting Point, °F (°C)	Dow Method	221 (105)
Vicat Softening Point, °F (°C)	ASTM D 1525	194 (90)
Extrusion Coating Performance⁽²⁾		
Water Vapor Transmission Rate g x mil/100 in. ² x day x atm	ASTM F 1249	1.7
Seal Initiation Temperature, °F (°C) ³⁽⁴⁾	Dow Method	221 (105)
Kinetic COF, (film/film)	ASTM D 1894	0.6
Extrusion Coating Processability		
Recommended Melt Temperature, °F (°C)		600-630 (315-332)
Neck in @ 610°F and @ 1.0 mil, inches (mm)	Dow Method	1.6 (41)
Maximum Line Speed, fpm (m/min)	Dow Method	830 (253)
Minimum Coating Weight, lb/ream (g/m ²)	Dow Method	8.0 (13)
Minimum Coating Thickness, mil	Dow Method	0.5

Fabrication Conditions For Extrusion Coating Film:

- Screw Size: 3.5 in. (89 mm); 30:1 L/D
- Screw Type: Single Flight with Maddock Mixer
- Die Gap: 20 mil (0.508 mm)
- Melt Temperature: 625°F (329°C)
- Output: 250 lb/hr
- Screw Speed: 90 rpm

- (1) Typical values, not to be construed as specifications. Users should confirm results by their own tests.
- (2) 1.0 mil (25µm) coating onto 50 lb Kraft paper.
- (3) Temperature at which 1 lb/in. (4.4 N/25.4 mm) heat seal strength is achieved.
- (4) Heat Seal Strengths, Topwave HT Tester 0.5 S dwell, 40 psi bar pressure, pull speed 250 mm/sec.

-See "Handling Considerations" attached

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As a service to its customers, Dow can provide names of information resources to help identify waste management companies and other facilities which recycle, reprocess, or manage chemicals or plastics, and that manage used drums. For more details, contact The Dow Chemical Company Customer Information Center at 1-800-441-4369. In Mexico, call 95-800-441-4369.

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Additional Information

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