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## DOW<sup>™</sup> LDPE 72 Low Density Polyethylene Resin

## Product Description

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Dow™ LDPE 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.

DOW Polyethylene 722 is a broad molecular weight distribution homopolymer designed to offer good impact strength and crack resistance, with excellent flexibility. The resin has good processability over a wide range of molding conditions.

- Typical applications include caps/closures
- · Good impact, ESCR with excellent flexibility

Complies with:

CANADIAN HPFB NO OBJECTION (WITH LIMITATIONS)

- EU, No 10/2011
- U.S. FDA 21 CFR 177.1520 (c) 2.2
- U.S. FDA DMF

Consult the regulations for complete details.

Additive • Antiblock: N	• Slip: No		Processing Aid: No		
Physical	Nominal Value	(English)	Nominal Value	(SI)	Test Method
Density	0.918	g/cm³	0.918	g/cm³	ASTM D792
Base Density	0.918	g/cm³	0.918	g/cm <sup>3</sup>	Dow Method '
Melt Index (190°C/2.16 kg)	8.0	g/10 min	8.0	g/10 min	ASTM D1238
Environmental Stress-Cracking F	Resistance				ASTM D1693 <sup>2</sup>
122°F (50°C), 100% Igepal, Ft	50 < 1.00	hr	< 1.00	hr	
Mechanical	Nominal Value	(English)	Nominal Value	(SI)	Test Method
Tensile Strength			$\checkmark$		ASTM D638 <sup>2</sup>
Yield	1200	psi	8.27	MPa	
Break	1400	psi	9.65	MPa	
Tensile Elongation					ASTM D638 <sup>2</sup>
Yield	4.0	%	4.0	%	
Break	500	%	500	%	
Flexural Modulus - 2% Secant	34000	psi	234	MPa	ASTM D790B <sup>2</sup>
Coefficient of Friction	0.60		0.60		ASTM D1894
Films	Nominal Value	(English)	Nominal Value	(SI)	Test Method
Seal Initiation Temperature	221	°F	105	°C	Dow Method °
Water Vapor Transmission Rate	1.7	g·mil/100in²/a tm/24 hr	0.67	g·mm/m²/atm /24 hr	ASTM F1249
Impact	Nominal Value	(English)	Nominal Value	(SI)	Test Method
Tensile Impact Strength	130	ft·lb/in²	273	kJ/m²	ASTM D1822
Hardness	Nominal Value	(English)	Nominal Value	(SI)	Test Method
Durometer Hardness (Shore D)	43		43		ASTM D2240 <sup>2</sup>
Thermal	Nominal Value	(English)	Nominal Value	(SI)	Test Method
Deflection Temperature Under Lo	bad				ASTM D648 <sup>2</sup>
66 psi (0.45 MPa), Unanneale	d 99.0	°F	37.2	°C	
Brittleness Temperature	-76.0	°F	-60.0	°C	ASTM D746 <sup>2</sup>
Vicat Softening Temperature	190	°F	87.8	°C	ASTM D1525
Melting Temperature (DSC)	224	°F	107	°C	Dow Method
Peak Crystallization Temperature	204 (DSC)	°F	95.6	°C	Dow Method

Additional Information	Nominal Value (English)	Nominal Value (SI)	Test Method
Melt Temperature - Recommended	600 to 630 °F	316 to 332 °C	Dow Method
Fabrication Conditions For Extrusion Coating Films			

- 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

Extrusion	Nominal Value	(English)	Nominal Value	(SI)	Test Method
Maximum Line Speed	25.0	ft/sec	7.6	m <mark>/sec</mark>	Dow Method
Minimum Coating Thickness	0.30	mil	7.6	μm	Dow Method
Minimum Coating Weight	4.4	lb/ream	7.2	g/m²	Dow Method
Neck-in (610°F (321°C), 1.0 mil (25.4 µm))	2.0	in	50.8	mm	Dow Method

## Notes

These are typical properties only and are not to be construed as specifications. Users should confirm results by their own tests.

<sup>1</sup> 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/cm<sup>3</sup>. Base density is the estimated density of the polymer if it did not contain any antiblock.

<sup>2</sup> Molded and tested in accordance with ASTM D4976.

<sup>3</sup> Temperature at which 1 lb/in (4.4 N/25.4 mm) heat seal strength is achieved. Heat Seal Strengths, Topware HT Tester 0.5 S dwell, 40 pis bar pressure, pull speed 250 mm/sec.

<sup>4</sup> Type S

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