



# DOW™ LDPE 219M

## Low Density Polyethylene Resin

Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
Density	0.921 g/cm <sup>3</sup>	0.921 g/cm <sup>3</sup>	ASTM D792
Melt Index (190°C/2.16 kg)	2.0 g/10 min	2.0 g/10 min	ASTM D1238
Mechanical	Nominal Value (English)	Nominal Value (SI)	Test Method
Coefficient of Friction			ASTM D1894
vs. Itself - Dynamic	0.55	0.55	
vs. Itself - Static	0.71	0.71	
Films	Nominal Value (English)	Nominal Value (SI)	Test Method
Film Thickness - Tested	2 mil	50 µm	
Film Puncture Resistance (2.0 mil (50 µm))	48.3 ft·lb/in <sup>3</sup>	4.00 J/cm <sup>3</sup>	Dow Method
Tensile Strength			ASTM D882
MD : Yield, 2.0 mil (50 µm)	1600 psi	11.0 MPa	
TD : Yield, 2.0 mil (50 µm)	1740 psi	12.0 MPa	
MD : Break, 2.0 mil (50 µm)	3340 psi	23.0 MPa	
TD : Break, 2.0 mil (50 µm)	2760 psi	19.0 MPa	
Tensile Elongation			ASTM D882
MD : Break, 2.0 mil (50 µm)	600 %	600 %	
TD : Break, 2.0 mil (50 µm)	830 %	830 %	
Dart Drop Impact (2.0 mil (50 µm))	96 g	96 g	ASTM D1709A
Elmendorf Tear Strength			ASTM D1922
MD : 2.0 mil (50 µm)	410 g	410 g	
TD : 2.0 mil (50 µm)	350 g	350 g	
Optical	Nominal Value (English)	Nominal Value (SI)	Test Method
Gloss (45°, 1.97 mil (50.0 µm))	62	62	ASTM D2457
Haze (1.97 mil (50.0 µm))	8.00 %	8.00 %	ASTM D1003
Extrusion	Nominal Value (English)	Nominal Value (SI)	
Melt Temperature	379 °F	193 °C	

### Notes

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

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This document is intended for use within Latin America

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