

DOW™ HDPE 90057L

High Density Polyethylene Resin

The Dow Chemical Company

Technical Data

General

Material Status	• Commercial: Active	
Literature ¹	• Technical Datasheet	
Search for UL Yellow Card	• The Dow Chemical Company	
Availability	• Latin America	
Agency Ratings	• EU No 10/2011	• FDA 21 CFR 177.1520(c) 3.2a
Forms	• Pellets	

Physical	Nominal Value Unit	Test Method
Specific Gravity	0.956 g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR)		ASTM D1238
190°C/2.16 kg	0.29 g/10 min	
190°C/21.6 kg	27 g/10 min	

Films	Nominal Value Unit	Test Method
Film Thickness - Tested	15 µm	
Film Puncture Resistance (15 µm)	5.60 J/cm ³	Internal Method
Secant Modulus		ASTM D882
2% Secant, MD: 15 µm	893 MPa	
2% Secant, TD: 15 µm	1060 MPa	
Tensile Strength		ASTM D882
MD: Yield, 15 µm	30.0 MPa	
TD: Yield, 15 µm	30.0 MPa	
MD: Break, 15 µm	41.0 MPa	
TD: Break, 15 µm	31.0 MPa	
Tensile Elongation		ASTM D882
MD: Yield, 15 µm	320 %	
TD: Yield, 15 µm	750 %	
Dart Drop Impact (15 µm)	50 g	ASTM D1709A
Elmendorf Tear Strength		ASTM D1922
MD: 15 µm	5.0 g	
TD: 15 µm	47 g	

Extrusion	Nominal Value Unit
Melt Temperature	210 °C

Notes

¹ These links provide you with access to supplier literature. We work hard to keep them up to date; however you may find the most current literature from the supplier.

² Typical properties: these are not to be construed as specifications.