

DOW™ HDPE 90052L

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	• FDA 21 CFR 177.1520(c) 3.2a
Forms	• Pellets

Physical	Nominal Value Unit	Test Method
Specific Gravity	0.952 g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR)		ASTM D1238
190°C/21.6 kg	11 g/10 min	
190°C/5.0 kg	0.35 g/10 min	

Films	Nominal Value Unit	Test Method
Film Thickness - Tested	15 µm	
Film Puncture Resistance (15 µm)	5.00 J/cm ³	ASTM D5748
Tensile Strength		ASTM D882
MD: Yield, 15 µm	33.0 MPa	
TD: Yield, 15 µm	30.0 MPa	
MD: Break, 15 µm	78.0 MPa	
TD: Break, 15 µm	44.0 MPa	
Tensile Elongation		ASTM D882
MD: Break, 15 µm	530 %	
TD: Break, 15 µm	610 %	
Dart Drop Impact (15 µm)	140 g	ASTM D1709A
Elmendorf Tear Strength		ASTM D1922
MD: 15 µm	9.0 g	
TD: 15 µm	110 g	

Extrusion	Nominal Value Unit
Melt Temperature	211 °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.