

DOW™ HDPE 35054L

High Density Polyethylene Resin
The Dow Chemical Company

Technical Data

Product Description

HDPE 35054L is a bimodal High Density Polyethylene intended for Blow Molding applications. This resin exhibit a good balance of mechanical properties and a very high Environmental Stress Cracking Resistance (ESCR).

Applications:

- Containers for:
 - Household & industrial chemicals (e.g. detergents and softeners)
 - Personal care products and Cosmetics
 - Food products
 - Lubricants
 - Car care products
 - Toys
 - Automotive Parts

Complies with:

- U.S. FDA 21 CFR 177.1520 (c) 3.2a Consult the regulation for complete details

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
Density	0.954 g/cm ³	ASTM D1505
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	
Environmental Stress-Cracking Resistance		ASTM D1693
50°C, 100% Igepal, F50	> 500 hr	

Mechanical	Nominal Value Unit	Test Method
Tensile Strength		ASTM D638
Yield	24.0 MPa	
Break	34.0 MPa	
Tensile Elongation (Break)	950 %	ASTM D638
Flexural Modulus - 2% Secant	840 MPa	ASTM D790

Impact	Nominal Value Unit	Test Method
Notched Izod Impact		ASTM D256
23°C, Compression Molded	140 J/m	

Hardness	Nominal Value Unit	Test Method
Durometer Hardness		ASTM D2240
Shore D, Compression Molded	65	

Thermal	Nominal Value Unit	Test Method
Vicat Softening Temperature	126 °C	ASTM D1525

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.