



DOW™ HDPE 35057L

High Density Polyethylene Resin

Overview

HDPE 35057L is a Bimodal High Density Polyethylene intended for Blow Molding applications. This resin exhibit a good balance between stiffness and Environmental Stress Crack Resistance (ESCR). It is especially suitable for the production of bottles, containers and technical hollow articles

Applications:

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

Complies with:

- FDA regulation 177.1520(c)3.2a
- Europe Commission Regulation (EU) No 10/2011
- Latin America MERCOSUR - Applications in Contact with Foods: This product complies with the MECOSUR Regulations: GMC 56/92; GMC 39/19 and GMC 02/12

Consult the regulations for complete details.

Additive

- Antiblock: No
- Slip: No
- Processing Aid: No

Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
Density	0.956 g/cm ³	0.956 g/cm ³	ASTM D792
Melt Index			ASTM D1238
190°C/2.16 kg	0.29 g/10 min	0.29 g/10 min	
190°C/21.6 kg	27 g/10 min	27 g/10 min	
Environmental Stress-Cracking Resistance (ESCR)			ASTM D1693
122°F (50°C), 100% Igepal, F50	> 200 hr	> 200 hr	
Mechanical	Nominal Value (English)	Nominal Value (SI)	Test Method
Tensile Strength			ASTM D638
Yield	3630 psi	25.0 MPa	
Break	5510 psi	38.0 MPa	
Tensile Elongation (Break)	950 %	950 %	ASTM D638
Flexural Modulus - 2% Secant	125000 psi	860 MPa	ASTM D790
Impact	Nominal Value (English)	Nominal Value (SI)	Test Method
Notched Izod Impact (73°F (23°C))	2.4 ft-lb/in	130 J/m	ASTM D256
Hardness	Nominal Value (English)	Nominal Value (SI)	Test Method
Durometer Hardness (Shore D)	66	66	ASTM D2240
Thermal	Nominal Value (English)	Nominal Value (SI)	Test Method
Vicat Softening Temperature	262 °F	128 °C	ASTM D1525

Notes

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

