



DOW™ HDPE 35060L

High Density Polyethylene Resin

Overview

HDPE 35060L is a High Density Polyethylene intended for Blow Molding applications. The bimodal molecular weight distribution of this resin leads to a high environmental stress crack resistance without sacrificing the rigidity (density). Its high density allows for weight reduction keeping the container performance. 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:

- U.S. FDA 21 177 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	0.961 g/cm ³	0.961 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) ¹			ASTM D1693
122°F (50°C), 100% Igepal, F50	> 280 hr	> 280 hr	
Mechanical	Nominal Value (English)	Nominal Value (SI)	Test Method
Tensile Strength			ASTM D638
Yield	4060 psi	28.0 MPa	
Break	5220 psi	36.0 MPa	
Tensile Elongation (Break)	1000 %	1000 %	ASTM D638
Flexural Modulus - 2% Secant	131000 psi	900 MPa	ASTM D790
Impact	Nominal Value (English)	Nominal Value (SI)	Test Method
Notched Izod Impact (73°F (23°C))	3.0 ft-lb/in	160 J/m	ASTM D256
Hardness	Nominal Value (English)	Nominal Value (SI)	Test Method
Durometer Hardness (Shore D)	67	67	ASTM D2240
Thermal	Nominal Value (English)	Nominal Value (SI)	Test Method
Vicat Softening Temperature	264 °F	129 °C	ASTM D1525

Additional Information

Tests performed in compression molded plaque.

Recommended processing conditions:

- Temperature of the cylinder: 180-190°C
- Temperature of the die: 200°C

Notes

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

¹ Notched

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