DOW™ HDPE 35060L

High Density Polyethylene Resin

The Dow Chemical Company

Technical Data

Product Description

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

Consult the regulations 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	• EU No 10/2011	• FDA 21 CFR 177.1520(c) 3.2a
Forms	• Pellets	

Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.961	g/cm³	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	
Environmental Stress-Cracking Resistance [3]			ASTM D1693
50°C, 100% Igepal, F50	> 280	hr	
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Strength			ASTM D638
Yield	28.0	MPa	
Break	36.0	MPa	
Tensile Elongation (Break)	1000	%	ASTM D638
Flexural Modulus - 2% Secant	900	MPa	ASTM D790
Impact	**Nominal Value**	**Unit**	**Test Method**
Notched Izod Impact (23°C)	160	J/m	ASTM D256
Hardness	**Nominal Value**	**Unit**	**Test Method**
Durometer Hardness (Shore D)	67		ASTM D2240
Thermal	**Nominal Value**	**Unit**	**Test Method**
Vicat Softening Temperature	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