Technical Information

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/cm³	0.956	g/cm³	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.