

DOW™ HDPE 35057L

High Density Polyethylene Resin

The Dow Chemical Company

Message:

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

Consult the regulations for complete details.

General Information			
Agency Ratings		EU No 10/2011	
		FDA 21 CFR 177.1520(c) 3.2a	
Forms		Pellets	
Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.956	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 (50°C, 100% Igepal, F50)	> 200	hr	ASTM D1693
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D)	66		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength			ASTM D638
Yield	25.0	MPa	
Break	38.0	MPa	
Tensile Elongation (Break)	950	%	ASTM D638
Flexural Modulus - 2% Secant	860	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C)	130	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature	128	°C	ASTM D1525

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