

# DOW™ HDPE 35060L

High Density Polyethylene Resin

The Dow Chemical Company

## Message:

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 Information			
Agency Ratings		FDA 21 CFR 177.1520(c) 3.2a	
		Europe No 10/2011	
Forms	Particle		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.961	g/cm <sup>3</sup>	ASTM D792
Melt Mass-Flow Rate (MFR)			ASTM D1238
190°C/2.16 kg	0.29	g/10 min	ASTM D1238
190°C/21.6 kg	27	g/10 min	ASTM D1238
Environmental Stress-Cracking Resistance <sup>1</sup> (50°C, 100% Igepal, F50)	> 280	hr	ASTM D1693
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D)	67		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength			ASTM D638
Yield	28.0	MPa	ASTM D638
Fracture	36.0	MPa	ASTM D638
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
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

#### NOTE

1. Notched

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#### Recommended distributors for this material

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