

DOW™ HDPE 35060A

High Density Polyethylene Resin
The Dow Chemical Company

Technical Data

Product Description

DOW™ HDPE 35060A is a High Density Polyethylene resin produced in the Slurry Process. This resin presents good impact and environmental stress cracking resistance. Its high density allows reducing the weight of the container while maintaining good rigidity.

Main Characteristics:

- Used in the production of jars for detergents, mineral oils, cleaning products, food, cosmetics
- Containers
- Toys
- Parts for cars

Complies with:

- U.S. FDA 21 177 1520 (c) 3.2a
- 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
Processing Method	• Blow Molding

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		ASTM D1693
50°C, 100% Igepal, Compression Molded	> 200 hr	

Mechanical	Nominal Value Unit	Test Method
Tensile Strength		ASTM D638
Yield, 1.90 mm, Compression Molded	29.0 MPa	
Break, 1.90 mm, Compression Molded	33.0 MPa	
Tensile Elongation		ASTM D638
Break, Compression Molded	1000 %	
Flexural Modulus (Compression Molded)	1400 MPa	ASTM D790

Impact	Nominal Value Unit	Test Method
Notched Izod Impact (Compression Molded)	42 J/m	ASTM D256

Hardness	Nominal Value Unit	Test Method
Durometer Hardness		ASTM D2240
Shore D, 1.90 mm, Compression Molded	72	

Thermal	Nominal Value Unit	Test Method
Vicat Softening Temperature	128 °C	ASTM D1525

Additional Information

Recommended processing conditions:

- Temperature of the Cylinder: 180-190°C
- Temperature of the Die: 200°C

Notes

¹ These links provide you with access to supplier literature. We work hard to keep them up to date; however you may find the most current literature from the supplier.

² Typical properties: these are not to be construed as specifications.