

DOW™ HDPE 35060A

High Density Polyethylene Resin

The Dow Chemical Company

Message:

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 Information			
Agency Ratings	FDA 21 CFR 177.1520(c) 3.2a Europe No 10/2011		
Forms	Particle		
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	ASTM D1238
190°C/21.6 kg	27	g/10 min	ASTM D1238
Environmental Stress-Cracking Resistance (50°C, 100% Igepal, molded)	> 200	hr	ASTM D1693
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D, 1.90mm, molded)	72		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength			ASTM D638
Yield, 1.90mm, molded	29.0	MPa	ASTM D638
Fracture, 1.90mm, molded	33.0	MPa	ASTM D638
Tensile Elongation (Break, Compression Molded)	1000	%	ASTM D638
Flexural Modulus (Compression Molded)	1400	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (Compression Molded)	42	J/m	ASTM D256
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

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