

# SABIC® HDPE M200056

High Density Polyethylene Copolymer

Saudi Basic Industries Corporation (SABIC)

## Message:

M200056 is High Density Polyethylene grade with narrow molecular weight distribution suitable for injection molding applications. It has been designed to give good flow properties, low warpage with good dimensional stability and high gloss.

### Typical Applications

M200056 is recommended for houseware, food containers, toys, caps and closures etc.

General Information			
Features	Good dimensional stability		
	Low warpage		
	Highlight		
	Good liquidity		
	Compliance of Food Exposure		
	Narrow molecular weight distribution		
Uses	Shield		
	Household goods		
	Container		
	Food container		
	Shell		
	Toys		
Forms	Particle		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Density	0.956	g/cm <sup>3</sup>	ASTM D1505
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	20	g/10 min	ASTM D1238
Environmental Stress-Cracking Resistance			ASTM D1693B
10% Igepal, molded, F50	2.00	hr	ASTM D1693B
100% Igepal, molded, F50	3.00	hr	ASTM D1693B
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D, Injection Molded)	60		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus - 1% Secant (Injection Molded)	800	MPa	ASTM D638
Tensile Strength			ASTM D638
Yield, injection molding	24.0	MPa	ASTM D638
Fracture, injection molding	12.0	MPa	ASTM D638

Tensile Elongation (Break, Injection Molded)	> 200	%	ASTM D638
Flexural Modulus (Injection Molded)	825	MPa	ASTM D790
Flexural Strength (Injection Molded)	23.0	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (Injection Molded)	30	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Brittleness Temperature	< -75.0	°C	ASTM D746
Vicat Softening Temperature	124	°C	ASTM D1525
Injection	Nominal Value	Unit	
Rear Temperature	180 - 250	°C	
Middle Temperature	180 - 250	°C	
Front Temperature	180 - 250	°C	
Mold Temperature	15.0 - 60.0	°C	
Injection Pressure	60.0 - 100	MPa	

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#### Recommended distributors for this material

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