

SABIC® HDPE M200056

High Density Polyethylene Copolymer

Saudi Basic Industries Corporation (SABIC)

Message:

SABIC® HDPE M200056 is a high density polyethylene copolymer injection moulding grade with a narrow molecular weight distribution. It is typically used for easy mold fill-out and low warpage with a good balance of toughness and stiffness characteristics.

Typical applications.

SABIC® HDPE M200056 is typically used for injection moulding of food containers, housewares, toys, base cups, caps and closures.

This product is not intended for and must not be used in any pharmaceutical/medical applications.

General Information			
Features	Copolymer		
	Food Contact Acceptable		
	Good Moldability		
	High Density		
	Low Warpage		
	Narrow Molecular Weight Distribution		
Uses	Caps		
	Closures		
	Cups		
	Food Containers		
	Household Goods		
	Toys		
Processing Method		Injection Molding	
Physical	Nominal Value	Unit	Test Method
Density	0.956	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	20	g/10 min	ISO 1133
Environmental Stress-Cracking Resistance ¹ (60°C, 3.00 mm, Rhodacal-DS10, Compression Molded)	60.0	hr	Internal Method
Hardness	Nominal Value	Unit	Test Method
Shore Hardness (Shore D, Compression Molded)	62		ISO 868
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus (2.00 mm, Compression Molded)	1200	MPa	ISO 527-2/1BA/50
Tensile Strength ²			ASTM D638
Yield, 2.00 mm, Compression Molded	28.0	MPa	
Break, 2.00 mm, Compression Molded	15.0	MPa	

Tensile Elongation ³ (Break, 2.00 mm, Compression Molded)	> 200	%	ASTM D638
Flexural Modulus (2.00 mm, Compression Molded)	1350	MPa	ISO 178
Flexural Stress (2.00 mm, Compression Molded)	28.0	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact Strength (23°C, Compression Molded)	3.0	kJ/m ²	ISO 180/A
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (0.45 MPa, Unannealed)	85.0	°C	ISO 75-2/B
Vicat Softening Temperature	128	°C	ISO 306/A
Melting Temperature (DSC)	132	°C	ISO 11357-3
Enthalpy Change	210	J/g	ISO 11357-3
Injection	Nominal Value	Unit	
Processing (Melt) Temp	180 to 250	°C	
Mold Temperature	15.0 to 60.0	°C	
NOTE			
1.	2 MPa		
2.	50 mm/min		
3.	50 mm/min		

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