

SABIC® HDPE CC2056

High Density Polyethylene Copolymer

Saudi Basic Industries Corporation (SABIC)

Message:

SABIC® HDPE CC2056 is a high density polyethylene copolymer injection moulding grade. Its narrow molecular weight distribution and high flow results in low warpage, good rigidity, good gloss and fast moulding cycles.

SABIC® HDPE CC2056 is typically used for caps and closures applications and thin wall articles.

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

General Information			
Features	Good Gloss		
	Good Rigidity		
	Low warpage		
	High density		
	Copolymer		
	Fast molding cycle		
	High liquidity		
	Narrow molecular weight distribution		
Uses	Thin wall parts		
	Shield		
	Shell		
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 (40°C, 1.00mm, 10% Igepal CO-630, compression molding)	10.0	hr	Internal method
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D, Compression Molded)	62		ISO 868
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus ¹ (2.00 mm, Compression Molded)	1200	MPa	ASTM D638
Tensile Strength ²			ASTM D638
Yield, 2.00mm, molded	28.0	MPa	ASTM D638
Fracture, 2.00mm, molded	15.0	MPa	ASTM D638
Tensile Elongation ³ (Break, 2.00 mm, Compression Molded)	> 200	%	ASTM D638
Impact	Nominal Value	Unit	Test Method

Notched Izod Impact (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
NOTE			
1.	50 mm/min		
2.	50 mm/min		
3.	50 mm/min		

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