

SABIC® HDPE F04660 (Blow moulding)

High Density Polyethylene

Saudi Basic Industries Corporation (SABIC)

Message:

SABIC® HDPE F04660 is a high density polyethylene blow moulding grade for high rigidity, good toughness and processability. These properties offer bottles to be made at lower weight with good top load strength.

Typical applications.

SABIC® HDPE F04660 can be used in hollow thinwalled parts and profile extrusions. It is not recommended for packaging environmentally active materials such as soaps, detergents, shampoos, etc.

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

General Information			
Features	Good Processability		
	Good Toughness		
	High Density		
	High Rigidity		
Uses	Bottles		
	Profiles		
	Thin-walled Parts		
Processing Method	Blow Molding		
	Extrusion		
	Profile Extrusion		
Physical	Nominal Value	Unit	Test Method
Density	0.961	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR)			ISO 1133
190°C/2.16 kg	0.70	g/10 min	
190°C/21.6 kg	46	g/10 min	
190°C/5.0 kg	3.0	g/10 min	
Environmental Stress-Cracking Resistance (10% Igepal CO-630, Compression Molded, F50)	15.0	hr	ASTM D1693B
Hardness	Nominal Value	Unit	Test Method
Shore Hardness (Shore D, Compression Molded)	63		ISO 868
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus (2.00 mm, Compression Molded)	1250	MPa	ISO 527-2/1BA/50
Tensile Stress			ISO 527-2/1BA/50
Yield, 2.00 mm, Compression Molded	29.0	MPa	
Break, 2.00 mm, Compression Molded	18.0	MPa	

Tensile Strain (Break, 2.00 mm, Compression Molded)	> 1000	%	ISO 527-2/1BA/50
Flexural Modulus (2.00 mm, Compression Molded)	1550	MPa	ISO 178
Flexural Stress (2.00 mm, Compression Molded)	31.0	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact Strength			ISO 180/A
-30°C, Compression Molded	6.0	kJ/m ²	
23°C, Compression Molded	10	kJ/m ²	
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (0.45 MPa, Unannealed)	88.0	°C	ISO 75-2/B
Vicat Softening Temperature	129	°C	ISO 306/A
Melting Temperature (DSC)	134	°C	ISO 11357-3
Enthalpy Change	223	J/g	ISO 11357-3
Blow Molding Barrel Temperature	175 to 200	°C	
Blow Molding Melt Temperature	205	°C	

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