

SABIC® HDPE M864G

High Density Polyethylene

Saudi Basic Industries Corporation (SABIC)

Message:

SABIC® HDPE M864G is a high density polyethylene injection moulding grade with a narrow molecular weight distribution. It is typically used for injection moulding applications where rigidity, toughness and warp resistance are required. SABIC® HDPE M864G is available with UV stabilizer as SABIC® HDPE M864SG.

Typical applications.

SABIC® HDPE M864G is typically used for the manufacture of injection moulded cases, crates, trays, industrial pails and other similar items.

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

General Information			
Features	Good Rigidity		
	High density		
	Bending resistance		
	Good toughness		
	Narrow molecular weight distribution		
Uses	Industrial application		
	Barrel		
	Loading box		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Density	0.964	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR)			ISO 1133
190°C/2.16 kg	8.0	g/10 min	ISO 1133
190°C/5.0 kg	22	g/10 min	ISO 1133
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D, Compression Molded)	65		ISO 868
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus (2.00 mm, Compression Molded)	1450	MPa	ISO 527-2/1BA/50
Tensile Stress			ISO 527-2/1BA/50
Yield, 2.00mm, molded	32.0	MPa	ISO 527-2/1BA/50
Fracture, 2.00mm, molded	15.0	MPa	ISO 527-2/1BA/50
Tensile Strain (Break, 2.00 mm, Compression Molded)	> 200	%	ISO 527-2/1BA/50
Flexural Modulus (2.00 mm, Compression Molded)	1700	MPa	ISO 178
Flexural Stress (2.00 mm, Compression Molded)	32.0	MPa	ISO 178

Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C, Compression Molded)	4.0	kJ/m ²	ISO 180/A
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (0.45 MPa, Unannealed)	95.0	°C	ISO 75-2/B
Vicat Softening Temperature	129	°C	ISO 306/A
Melting Temperature (DSC)	135	°C	ISO 11357-3
Enthalpy Change	229	J/g	ISO 11357-3
Injection	Nominal Value	Unit	
Processing (Melt) Temp	230 - 275	°C	
Mold Temperature	32 - 38	°C	
Injection Pressure	69.0 - 89.0	MPa	

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