SABIC® HDPE M864E

High Density Polyethylene

Saudi Basic Industries Corporation (SABIC)

Message:

SABIC ® HDPE M864E 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 M864E is available with UV stabilizer as SABIC ® HDPE M864SE and M864SG.

Typical applications.

Crates & Boxes: SABIC® HDPE M864E is typically used for the manufacture of injection moulded cases, crates, trays, industrial pails and other similar items.

Caps & Closures: SABIC HDPE® M864E is typically used for Juice, Milk and Edible Oil applications.

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

General Information				
Features	Good Toughness			
	High Density			
	Medium Rigidity			
	Narrow Molecular Weight Distribution			
	Warp Resistant			
Uses	Caps			
	Closures			
	Crates			
	Industrial Applications			
	Pails			
Processing Method	Injection Molding			
Physical	Nominal Value	Unit	Test Method	
Density	0.964	g/cm³	ISO 1183	
Melt Mass-Flow Rate (MFR)			ISO 1133	
190°C/2.16 kg	8.0	g/10 min		
190°C/5.0 kg	22	g/10 min		
Environmental Stress-Cracking Resistance				
¹ (60°C, 3.00 mm, Rhodacal-DS10, Compression Molded)	90.0	br	Internal Method	
Hardhoos	Nominal Value		Tost Mothod	
		Unit		
Molded)	65		ISO 868	
Mechanical	Nominal Value	Unit	Test Method	
Tensile Modulus (2.00 mm, Compression				
Molded)	1450	МРа	ISO 527-2/1BA/50	
Tensile Stress			ISO 527-2/1BA/50	
Yield, 2.00 mm, Compression Molded	32.0	MPa		
Break, 2.00 mm, Compression Molded	15.0	MPa		

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 Strength (23°C,			
Compression Molded)	4.0	kJ/m²	ISO 180/A
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (0.45 MPa,			
Unannealed)	94.0	°C	ISO 75-2/B
Unannealed) Vicat Softening Temperature	94.0 129	°C ℃	ISO 75-2/B ISO 306/A
Unannealed) Vicat Softening Temperature Melting Temperature (DSC)	94.0 129 134	°C °C	ISO 75-2/B ISO 306/A ISO 11357-3
Unannealed) Vicat Softening Temperature Melting Temperature (DSC) Enthalpy Change	94.0 129 134 226	°C °C □/g	ISO 75-2/B ISO 306/A ISO 11357-3 ISO 11357-3
Unannealed) Vicat Softening Temperature Melting Temperature (DSC) Enthalpy Change NOTE	94.0 129 134 226	°C ℃ ℃ J/g	ISO 75-2/B ISO 306/A ISO 11357-3 ISO 11357-3

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