SABIC® HDPE M864EG

High Density Polyethylene

Saudi Basic Industries Corporation (SABIC)

Message:

SABIC® HDPE M864EG 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 M864EG is available with UV stabilizer as SABIC® HDPE M864SE and M864SG.
Typical applications
Crates & Boxes: SABIC® HDPE M864EG is typically used for the manufacture of injection moulded cases, crates, trays, industrial pails and other similar items.
Caps & Closures: SABIC HDPE® M864EG 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	High density Bending resistance Good toughness Narrow molecular weight distribution Medium hardness		
Uses	Industrial application Shield Barrel Shell Loading box		
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	ISO 1133
190°C/5.0 kg	22	g/10 min	ISO 1133
Environmental Stress-Cracking Resistance (40°C, 1.00mm, 10% Igepal CO-630, compression molding)	7.00	hr	Internal method
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)	94.0	°C	ISO 75-2/B
Vicat Softening Temperature	129	°C	ISO 306/A
Melting Temperature (DSC)	134	°C	ISO 11357-3
Enthalpy Change	226	J/g	ISO 11357-3

Recommended distributors for this material

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