

SABIC® HDPE M864SE

High Density Polyethylene

Saudi Basic Industries Corporation (SABIC)

Message:

SABIC® HDPE M864SE is an UV stabilized, 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.

Typical applications.

SABIC® HDPE M864SE 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			
Additive	UV Stabilizer		
Features	Good Toughness		
	Good UV Resistance		
	High Density		
	Medium Rigidity		
	Narrow Molecular Weight Distribution		
	Warp Resistant		
Uses	Crates		
	Industrial Applications		
	Pails		
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	
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	hr	Internal Method
Hardness	Nominal Value	Unit	Test Method
Shore 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, 2.00 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/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 to 275	°C	
Mold Temperature	32.0 to 38.0	°C	
Injection Pressure	69.0 to 89.0	MPa	
NOTE			
1.	2 MPa		

The information and data on this page are provided by manufacturers and document providers. SHANGHAI SUSHENG assumes no legal liability. It is strongly recommended to verify all technical data with material suppliers before final material selection. All rights belong to the original authors. If any infringement occurs, please contact us immediately.

Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China



WECHAT