SABIC® HDPE M864SG

High Density Polyethylene

Saudi Basic Industries Corporation (SABIC)

Message:

SABIC® HDPE M864SG 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 M864SG 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 Rigidity			
	UV Stabilized			
	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/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	
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,		<u> </u>		
Compression Molded)	> 200	%	ISO 527-2/1BA/50	
Flexural Modulus (2.00 mm, Compression	1700	MD-	ICO 170	
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, Compressi	on				
Molded)	4.0	kJ/m²	ISO 180/A		
Thermal	Nominal Value	Unit	Test Method		
Heat Deflection Temperature (0.45 MP	a,				
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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