

SABIC® HDPE M40060S

High Density Polyethylene Copolymer

Saudi Basic Industries Corporation (SABIC)

Message:

SABIC® HDPE M40060S is an UV stabilized, high density polyethylene copolymer injection moulding grade with a narrow molecular weight distribution. It has improved mouldability. Articles produced from this grade typically show good impact strength, low warpage, stress crack resistance (ESCR) and good gloss.

Typical applications.

SABIC® HDPE M40060S is typically used for the manufacture of injection moulded articles such as pails, shipping containers and industrial parts.

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

General Information			
Additive	UV Stabilizer		
Features	Copolymer		
	Good Impact Resistance		
	Good UV Resistance		
	High Density		
	High ESCR (Stress Crack Resist.)		
	Low Warpage		
	Medium Gloss		
	Narrow Molecular Weight Distribution		
Uses	Industrial Parts		
	Pails		
	Shipping Containers		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	0.960	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR)			ISO 1133
190°C/2.16 kg	4.0	g/10 min	
190°C/5.0 kg	11	g/10 min	
Environmental Stress-Cracking Resistance ¹ (60°C, 3.00 mm, Rhodacal-DS10, Compression Molded)	70.0	hr	Internal Method
Hardness	Nominal Value	Unit	Test Method
Shore Hardness (Shore D, Compression Molded)	64		ISO 868
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus (2.00 mm, Compression Molded)	1300	MPa	ISO 527-2/1BA/50
Tensile Stress			ISO 527-2/1BA/50
Yield, 2.00 mm, Compression Molded	30.0	MPa	

Break, 2.00 mm, Compression Molded	24.0	MPa	
Tensile Strain (Break, 2.00 mm, Compression Molded)	> 200	%	ISO 527-2/1BA/50
Flexural Modulus (2.00 mm, Compression Molded)	1500	MPa	ISO 178
Flexural Stress (2.00 mm, Compression Molded)	30.0	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact Strength (23°C, Compression Molded)	5.0	kJ/m ²	ISO 180/A
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (0.45 MPa, Unannealed)	90.0	°C	ISO 75-2/B
Vicat Softening Temperature	127	°C	ISO 306/A
Melting Temperature (DSC)	133	°C	ISO 11357-3
Enthalpy Change	219	J/g	ISO 11357-3
Injection	Nominal Value	Unit	
Processing (Melt) Temp	232 to 260	°C	
Mold Temperature	20.0 to 40.0	°C	
Injection Pressure	93.0 to 103	MPa	
NOTE			
1.	2 MPa		

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