

SABIC® HDPE M100053C

High Density Polyethylene

Saudi Basic Industries Corporation (SABIC)

Message:

SABIC®HDPE M100053C is a high density polyethylene product. It can be processed by injection molding and is available in Europe. SABIC®HDPE M100053C applications include hats/caps/corks and food contact applications.

Features include:

- high purity
- High resistance to environmental stress fracture (ESCR)
- Good processability
- Good toughness
- beautiful

General Information			
Features	High purity		
	High ESCR (Stress Cracking Resistance)		
	Workability, good		
	Good sensory characteristics		
	Good toughness		
	Narrow molecular weight distribution		
Uses	Shield		
Agency Ratings	EEC 2002/72/EC		
	FDA 21 CFR 177.1520		
Appearance	Natural color		
Forms	Particle		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Density	0.953	g/cm³	ISO 1183
Melt Mass-Flow Rate (MFR)			ISO 1133
190°C/2.16 kg	10	g/10 min	ISO 1133
190°C/5.0 kg	28	g/10 min	ISO 1133
Melt Volume-Flow Rate (MVR)			ISO 1133
190°C/2.16 kg	13.0	cm³/10min	ISO 1133
190°C/5.0 kg	37.0	cm³/10min	ISO 1133
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D, 15 sec, Compression Molded)	60		ISO 868
Ball Indentation Hardness (H 132/30)	48.0	MPa	ISO 2039-1
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus (2.00 mm, Compression Molded)	1050	MPa	ISO 527-2/1BA/1

Tensile Stress			ISO 527-2/1BA/50
Yield, 2.00mm, molded	26.0	MPa	ISO 527-2/1BA/50
Fracture, 2.00mm, molded	14.0	MPa	ISO 527-2/1BA/50
Tensile Strain (Break, 2.00 mm, Compression Molded)	400	%	ISO 527-2/1BA/50
Tensile Creep Modulus			ISO 899-1
1 hr	460	MPa	ISO 899-1
1000 hr	230	MPa	ISO 899-1
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			ISO 180/1A
-30°C	3.0	kJ/m ²	ISO 180/1A
23°C	3.0	kJ/m ²	ISO 180/1A
Tensile Impact Strength	33.0	kJ/m ²	ISO 8256/1B
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, not annealed	70.0	°C	ISO 75-2/B
1.8 MPa, not annealed	44.0	°C	ISO 75-2/A
Vicat Softening Temperature			
--	122	°C	ISO 306/A50
--	68.0	°C	ISO 306/B50
Additional Information			

ESCR, SABIC Method, Determined in Rhodacal-DS10 at 60°C, 2 N/mm², thickness 3mm: 30hrTensile Impact Elongation at Break, ISO 8256, Type 1, Method B: 1.4%Tensile Impact Maximum Tension, ISO 8256, Type 1, Method B: 34 MPaMelting Point, DIN 53765, Tmelt(top) at 5°C/min: 130°CEnthalpy Change, DIN 53765: 200J/g

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