

SABIC® HDPE M30053S

High Density Polyethylene

Saudi Basic Industries Corporation (SABIC)

Message:

SABIC®HDPE M30053S is a high density polyethylene product. It can be processed by injection molding and is available in Europe. SABIC®The application fields of HDPE M30053S include container and food contact applications.

Features include:

- high purity
- Good processability
- anti-warping
- Good stiffness
- Impact resistance

General Information			
Additive	UV stabilizer		
Features	High purity		
	Low warpage		
	Rigid, good		
	Impact resistance, good		
	Workability, good		
	Narrow molecular weight distribution		
Uses	Container		
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	0.952	g/cm³	ISO 1183
Melt Mass-Flow Rate (MFR)			ISO 1133
190°C/2.16 kg	3.5	g/10 min	ISO 1133
190°C/5.0 kg	10	g/10 min	ISO 1133
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D, 15 sec, Compression Molded)	61		ISO 868
Ball Indentation Hardness (H 132/30)	45.0	MPa	ISO 2039-1
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus (2.00 mm, Compression Molded)	1020	MPa	ISO 527-2/1BA/1
Tensile Stress			ISO 527-2/1BA/50
Yield, 2.00mm, molded	24.0	MPa	ISO 527-2/1BA/50

Fracture, 2.00mm, molded	33.0	MPa	ISO 527-2/1BA/50
Tensile Strain (Break, 2.00 mm, Compression Molded)	2000	%	ISO 527-2/1BA/50
Tensile Creep Modulus			ISO 899-1
1 hr	425	MPa	ISO 899-1
1000 hr	225	MPa	ISO 899-1
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			ISO 180/1A
-30°C	4.7	kJ/m ²	ISO 180/1A
23°C	5.8	kJ/m ²	ISO 180/1A
Tensile Impact Strength	42.0	kJ/m ²	ISO 8256/1B
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, not annealed	71.0	°C	ISO 75-2/B
1.8 MPa, not annealed	43.0	°C	ISO 75-2/A
Vicat Softening Temperature			
--	125	°C	ISO 306/A50
--	70.0	°C	ISO 306/B50

Additional Information

Strain at Break, ISO 527, Compression Molded, Type 1BA, 50mm/min, 2mm: >2000%ESCR, SABIC Method, Determined in Rhodacal-DS10 at 60°C, 2 N/mm², thickness 3mm: 100hrTensile Impact Elongation at Break, ISO 8256, Type 1, Method B: 1.6%Tensile Impact Maximum Tension, ISO 8256, Type 1, Method B: 36 MPaMelting Point, DIN 53765, Tmelt(top) at 5°C/min: 132°CEnthalpy Change, DIN 53765: 203J/g

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