

SABIC® HDPE M80063

High Density Polyethylene

Saudi Basic Industries Corporation (SABIC)

Message:

SABIC®HDPE M80063 is a high density polyethylene product. It can be processed by injection molding and is available in Europe. SABIC®The application areas of HDPE M80063 include container and food contact applications.

Features include:

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

General Information			
Features	High purity		
	Low warpage		
	Impact resistance, high		
	Workability, good		
	Narrow molecular weight distribution		
Uses	Loading box		
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	0.963	g/cm ³	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, 15 sec, Compression Molded)	59		ISO 868
Ball Indentation Hardness (H 132/30)	57.0	MPa	ISO 2039-1
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus (2.00 mm, Compression Molded)	1330	MPa	ISO 527-2/1BA/1
Tensile Stress			ISO 527-2/1BA/50
Yield, 2.00mm, molded	28.0	MPa	ISO 527-2/1BA/50
Fracture, 2.00mm, molded	24.0	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	605	MPa	ISO 899-1
1000 hr	285	MPa	ISO 899-1
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			ISO 180/1A
-30°C	4.0	kJ/m ²	ISO 180/1A
23°C	4.3	kJ/m ²	ISO 180/1A
Tensile Impact Strength	30.0	kJ/m ²	ISO 8256/1B
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, not annealed	83.0	°C	ISO 75-2/B
1.8 MPa, not annealed	49.0	°C	ISO 75-2/A
Vicat Softening Temperature			
--	127	°C	ISO 306/A50
--	71.0	°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: 65hrTensile Impact Elongation at Break, ISO 8256, Type 1, Method B: 1.3%Tensile Impact Maximum Tension, ISO 8256, Type 1, Method B: 38 MPaMelting Point, DIN 53765, Tmelt(top) at 5°C/min: 134°CEnthalpy Change, DIN 53765: 229J/g

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