

SABIC® HDPE ICP5008

High Density Polyethylene

Saudi Basic Industries Corporation (SABIC)

Message:

SABIC® HDPE ICP5008 is part of SABIC's high density polyethylene Industrial Container Product portfolio. SABIC® HDPE ICP5008 combines good mechanical/processing properties with good ESCR performance. The material is supplied as natural pellets without UV package. The material can be coloured with a master batch. This product is not intended for and must not be used in any pharmaceutical/medical applications.

General Information			
Features	Good Processability		
	High Density		
	High ESCR (Stress Crack Resist.)		
Uses	Industrial Containers		
Appearance	Natural Color		
Forms	Pellets		
Processing Method	Blow Molding		
Physical	Nominal Value	Unit	Test Method
Density	0.949	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (190°C/21.6 kg)	7.0	g/10 min	ISO 1133
Environmental Stress-Cracking Resistance (10% Igepal CO-630, Compression Molded, F50)	800	hr	ASTM D1693B
Hardness	Nominal Value	Unit	Test Method
Shore Hardness (Shore D, Compression Molded)	60		ISO 868
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus (2.00 mm, Compression Molded)	950	MPa	ISO 527-2/1BA/50
Tensile Stress			ISO 527-2/1BA/50
Yield, 2.00 mm, Compression Molded	23.0	MPa	
Break, 2.00 mm, Compression Molded	34.0	MPa	
Tensile Strain (Break, 2.00 mm, Compression Molded)	> 1000	%	ISO 527-2/1BA/50
Flexural Modulus (2.00 mm, Compression Molded)	1000	MPa	ISO 178
Flexural Stress (2.00 mm, Compression Molded)	24.0	MPa	ISO 178
ESCR (Strain Hardening) - Gp	30.0	MPa	Internal Method
Enthalpy Change	192	J/g	DIN 53765
Impact	Nominal Value	Unit	Test Method

Notched Izod Impact Strength (-30°C, Compression Molded)	15	kJ/m ²	ISO 180/A
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (0.45 MPa, Unannealed)	77.0	°C	ISO 75-2/B
Vicat Softening Temperature	126	°C	ISO 306/A
Melting Temperature (DSC)	131	°C	DIN 53765

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Recommended distributors for this material

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