

# SABIC® HDPE ICP5703

High Density Polyethylene

Saudi Basic Industries Corporation (SABIC)

## Message:

SABIC® HDPE ICP5703 is part of SABIC's high density polyethylene Industrial Container Product portfolio. SABIC® HDPE ICP5703 is typically used for blow moulding UN certified Open Head drums, from 25 up to 220 liter. This food approved grade combines good processing performance with good stress crack resistance, stiffness and impact performance. This product is not intended for and must not be used in any pharmaceutical/medical applications.

General Information			
Features	Rigid, good		
	High density		
	Impact resistance, good		
	Workability, good		
	Good cracking resistance		
	Compliance of Food Exposure		
Uses	Industrial container		
	Drum		
Processing Method	Blow molding		
Physical	Nominal Value	Unit	Test Method
Density	0.956	g/cm <sup>3</sup>	ISO 1183
Melt Mass-Flow Rate (MFR) (190°C/21.6 kg)	3.1	g/10 min	ISO 1133
Environmental Stress-Cracking Resistance (10% Igepal CO-630, Compression Molded, F50)	110	hr	ASTM D1693B
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D, Compression Molded)	63		ISO 868
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus (2.00 mm, Compression Molded)	1150	MPa	ISO 527-2/1BA/50
Tensile Stress			ISO 527-2/1BA/50
Yield, 2.00mm, molded	27.0	MPa	ISO 527-2/1BA/50
Fracture, 2.00mm, molded	40.0	MPa	ISO 527-2/1BA/50
Tensile Strain (Break, 2.00 mm, Compression Molded)	> 1000	%	ISO 527-2/1BA/50
Flexural Modulus (2.00 mm, Compression Molded)	1350	MPa	ISO 178
Flexural Stress (2.00 mm, Compression Molded)	28.0	MPa	ISO 178
ESCR (Strain Hardening) - Gp	15.0	MPa	ISO 18488

Enthalpy Change	212	J/g	ISO 11357-3
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (-30°C, Compression Molded)	50	kJ/m <sup>2</sup>	ISO 180/A
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (0.45 MPa, Unannealed)	84.0	°C	ISO 75-2/B
Vicat Softening Temperature	128	°C	ISO 306/A
Melting Temperature (DSC)	133	°C	ISO 11357-3

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