

SABIC® HDPE ICP5602

High Density Polyethylene

Saudi Basic Industries Corporation (SABIC)

Message:

SABIC® HDPE ICP5602 is part of SABIC's high density polyethylene Industrial Container Product portfolio. SABIC® HDPE ICP5602 is typically used for blow moulding UN certified Tight Head drums, from 25 up to 220 liters. 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	Food Contact Acceptable		
	Good Crack Resistance		
	Good Impact Resistance		
	Good Processability		
	Good Stiffness		
	High Density		
Uses	Drums		
	Industrial Containers		
Processing Method	Blow Molding		
Physical	Nominal Value	Unit	Test Method
Density	0.956	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (190°C/21.6 kg)	2.3	g/10 min	ISO 1133
Environmental Stress-Cracking Resistance (10% Igepal CO-630, Compression Molded, F50)	130	hr	ASTM D1693B
Hardness	Nominal Value	Unit	Test Method
Shore Hardness (Shore D, Compression Molded)	62		ISO 868
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus (2.00 mm, Compression Molded)	1100	MPa	ISO 527-2/1BA/50
Tensile Stress			ISO 527-2/1BA/50
Yield, 2.00 mm, Compression Molded	27.0	MPa	
Break, 2.00 mm, Compression Molded	40.0	MPa	
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	17.0	MPa	Internal Method

Enthalpy Change	210	J/g	ISO 11357-3
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact Strength (-30°C, Compression Molded)	62	kJ/m ²	ISO 180/A
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (0.45 MPa, Unannealed)	83.0	°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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