

# SABIC® HDPE ICP4907S

High Density Polyethylene

Saudi Basic Industries Corporation (SABIC)

## Message:

SABIC® HDPE ICP4907S is part of SABIC's high density polyethylene Industrial Container Product portfolio.

SABIC® HDPE ICP4907S is typically used for state of the art blow moulding UN certified Intermediate Bulk Containers and Heating Oil Tanks, up to 1000 liters and more. This UV-stabilised and 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			
Additive	UV Stabilizer		
Features	Food Contact Acceptable		
	Good Crack Resistance		
	Good Impact Resistance		
	Good Processability		
	Good Stiffness		
	Good UV Resistance		
Uses	High Density		
	Industrial Containers		
	Non-specific Food Applications Tanks		
Processing Method	Blow Molding		
Physical	Nominal Value	Unit	Test Method
Density	0.949	g/cm <sup>3</sup>	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	ISO 11357-3
<b>Impact</b>	<b>Nominal Value</b>	<b>Unit</b>	<b>Test Method</b>
Notched Izod Impact Strength (-30°C, Compression Molded)	17	kJ/m <sup>2</sup>	ISO 180/A
<b>Thermal</b>	<b>Nominal Value</b>	<b>Unit</b>	<b>Test Method</b>
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	ISO 11357-3

The information and data on this page are provided by manufacturers and document providers. SHANGHAI SUSHENG assumes no legal liability. It is strongly recommended to verify all technical data with material suppliers before final material selection. All rights belong to the original authors. If any infringement occurs, please contact us immediately.

#### Recommended distributors for this material

## Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

