



## PROVISIONAL DATA SHEET

SABIC<sup>®</sup> HDPE ICP 4507S

## PRODUCT DESCRIPTION:

SABIC<sup>®</sup> ICP4507S is a high molecular weight High Density Polyethylene copolymer grade with broad molecular weight distribution.

SABIC<sup>®</sup> ICP4507S is typically used for state of the art blow molding UN certified Intermediate Bulk Containers and Heating Oil Tanks. This UV-stabilized and food approved grade combines good processing performance with excellent stress crack resistance, stiffness and impact performance.

This product is not intended for and must not be used in any pharmaceutical/medical applications.

## Typical Properties

Physical <sup>(2)</sup>	Unit	Value <sup>(1)</sup>	Test Method
Melt Flow Rate			
@ 190°C & 21.6 kg <sup>(1)</sup>	g/10 min	6.1	ASTM D 1238
Density @ 23°C <sup>(1)</sup>	Kg/m <sup>3</sup>	945	ASTM D 1505
<b>Mechanical<sup>(2)</sup></b>			
1% Secant Modulus	MPa	800	ASTM D 638
Tensile Strength @ Yield 2 in/min, Type IV	MPa	22	ASTM D 638
Elongation at Break 2 in/min, Type IV	MPa	640	ASTM D 638
Flexural Modulus	MPa	664	ASTM D 790
Izod Impact	J/m	521	ASTM D 256
<b>Thermal <sup>(2)</sup></b>			
Vicat Softening Temperature Loading 1, Rate A	°C	123	ASTM D256
Durometer Hardness, Type D (Shore D)		53	ASTM D2240
ESCR, Condition B (10% Igepal), F50	Hrs	>1000	ASTM D 1693

(1) Typical values: not to be construed as specification limits.

(2) The physical properties were determined on compression molded specimens.

## HEALTH, SAFETY AND FOOD CONTACT REGULATIONS:

Detailed information is provided in the relevant Material Safety Datasheet and or Standard Food Declaration; Additional specific information can be requested via your local Sales Office.

## STORAGE AND HANDLING:

Polyethylene material should be stored in a manner to prevent direct exposure to sunlight and/or heat. The storage area should also be dry and preferably not exceeding 50°C. SABIC would not give warranty to bad storage conditions, which may lead to quality deterioration such as color change, bad smell and inadequate product performance. It is advisable to process PE resin within 6 months after delivery.

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