

# SABIC® HDPE B5403

High Density Polyethylene

Saudi Basic Industries Corporation (SABIC)

## Message:

SABIC® HDPE B5403 is typically used for blow moulding UN certified Tight 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	Good ESCR (Stress Crack Resist.)		
	Rigid, good		
	High density		
	Impact resistance, good		
	Workability, good		
	Compliance of Food Exposure		
Uses	Drum		
Processing Method	Blow molding		
Physical	Nominal Value	Unit	Test Method
Density	0.954	g/cm <sup>3</sup>	ISO 1183
Melt Mass-Flow Rate (MFR)			ISO 1133
190°C/21.6 kg	2.7	g/10 min	ISO 1133
190°C/5.0 kg	0.10	g/10 min	ISO 1133
Environmental Stress-Cracking Resistance (10% Igepal CO-630, Compression Molded, F50)	170	hr	ASTM D1693B
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D, Compression Molded)	61		ISO 868
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus (2.00 mm, Compression Molded)	1250	MPa	ISO 527-2/1BA/50
Tensile Stress			ISO 527-2/1BA/50
Yield, 2.00mm, molded	26.0	MPa	ISO 527-2/1BA/50
Fracture, 2.00mm, molded	39.0	MPa	ISO 527-2/1BA/50
Tensile Strain			ISO 527-2/1BA/50
Yield, 2.00mm, molded	14	%	ISO 527-2/1BA/50
Fracture, 2.00mm, molded	> 1000	%	ISO 527-2/1BA/50
Flexural Modulus (2.00 mm, Compression Molded)	1250	MPa	ISO 178
Flexural Stress (2.00 mm, Compression Molded)	27.0	MPa	ISO 178
ESCR (Strain Hardening) - Gp	23.0	MPa	ISO 18488

Enthalpy Change	195	J/g	ISO 11357-3
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			ISO 180/A
-30°C, molded	60	kJ/m <sup>2</sup>	ISO 180/A
23°C, molded	72	kJ/m <sup>2</sup>	ISO 180/A
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (0.45 MPa, Unannealed)	78.0	°C	ISO 75-2/B
Vicat Softening Temperature	129	°C	ISO 306/A
Melting Temperature (DSC)	132	°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

