

# SABIC® HDPE B4520

High Density Polyethylene

SABIC Americas, Inc.

## Message:

SABIC® HDPE B4520 is developed for blow moulding packaging up to 20 l, combining medium stiffness with a superior ESCR. This grade is suitable for packaging aggressive detergents and technical articles such as, spare fuel tanks, air- and cable ducts.

The product mentioned herein is in particular not tested and therefore not validated for use in pharmaceutical/medical applications.

General Information			
Features	Good Stiffness		
	High ESCR (Stress Crack Resist.)		
Uses	Automotive Applications		
	Blow Molding Applications		
	Bottles		
	Packaging		
Forms	Pellets		
Processing Method	Blow Molding		
	Extrusion		
	Pipe Extrusion		
Physical	Nominal Value	Unit	Test Method
Density	0.945	g/cm <sup>3</sup>	ISO 1183
Melt Mass-Flow Rate (MFR)			ISO 1133
190°C/2.16 kg	0.16	g/10 min	
190°C/21.6 kg	20	g/10 min	
190°C/5.0 kg	0.89	g/10 min	
Environmental Stress-Cracking Resistance <sup>1</sup> (75°C, 1.00 mm, Rhodacal-DS10)	40.0	hr	Internal Method
Hardness	Nominal Value	Unit	Test Method
Shore Hardness (Shore D, Compression Molded)	59		ISO 868
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus (2.00 mm, Compression Molded)	800	MPa	ISO 527-2/1BA/50
Tensile Stress			ISO 527-2/1BA/50
Yield, 2.00 mm, Compression Molded	22.0	MPa	
Break, 2.00 mm, Compression Molded	31.0	MPa	
Tensile Strain (Break, 2.00 mm, Compression Molded)	> 1000	%	ISO 527-2/1BA/50
Impact	Nominal Value	Unit	Test Method

Notched Izod Impact Strength			ISO 180/1A
-30°C	5.0	kJ/m <sup>2</sup>	
23°C	12	kJ/m <sup>2</sup>	
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (0.45 MPa, Unannealed)	73.0	°C	ISO 75-2/B
Vicat Softening Temperature	126	°C	ISO 306/A
Melting Temperature (DSC)	133	°C	DIN 53765
Enthalpy Change	181	J/g	DIN 53765
NOTE			
1.	3 MPa		

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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

