

SABIC® HDPE B5421

High Density Polyethylene

Saudi Basic Industries Corporation (SABIC)

Message:

SABIC® HDPE B5421 is typically used for blow moulding consumer packaging up to 5 l, combining a good stiffness with an high ESCR. This grade is typically used for packaging detergents, cleaners, shampoos and cosmetics at a high ESCR demand. This product is not intended for and must not be used in any pharmaceutical/medical applications.

General Information			
Features	Good Stiffness		
	High Density		
	High ESCR (Stress Crack Resist.)		
Uses	Packaging		
Processing Method	Blow Molding		
Physical	Nominal Value	Unit	Test Method
Density	0.954	g/cm ³	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 (10% Igepal CO-630, Compression Molded, F50)	50.0	hr	ASTM D1693B
Hardness	Nominal Value	Unit	Test Method
Shore Hardness (Shore D, Compression Molded)	61		ISO 868
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus (2.00 mm, Compression Molded)	1050	MPa	ISO 527-2/1BA/50
Tensile Stress			ISO 527-2/1BA/50
Yield, 2.00 mm, Compression Molded	26.0	MPa	
Break, 2.00 mm, Compression Molded	27.0	MPa	
Tensile Strain (Break, 2.00 mm, Compression 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
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact Strength			ISO 180/A
-30°C, Compression Molded	6.0	kJ/m ²	
23°C, Compression Molded	14	kJ/m ²	

Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (0.45 MPa, Unannealed)	81.0	°C	ISO 75-2/B
Vicat Softening Temperature	127	°C	ISO 306/A
Melting Temperature	132	°C	ISO 11357-3
Enthalpy Change	205	J/g	ISO 11357-3

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