

SABIC® HDPE B5822

High Density Polyethylene

Saudi Basic Industries Corporation (SABIC)

Message:

SABIC® HDPE B5822 is a multimodal HDPE that combines high ESCR and stiffness with good impact resistance. It is typically used for blow moulding of consumer packaging up to 5 l, e.g. for packaging the majority of detergents, cleaners, shampoos and cosmetics.

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

General Information			
Features	Rigid, good		
	High ESCR (Stress Cracking Resistance)		
	High density		
	Impact resistance, good		
Uses	Packaging		
Processing Method	Blow molding		
Physical	Nominal Value	Unit	Test Method
Density	0.958	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR)			ISO 1133
190°C/21.6 kg	22	g/10 min	ISO 1133
190°C/5.0 kg	1.2	g/10 min	ISO 1133
Environmental Stress-Cracking Resistance			
Molding ¹	8.00	hr	ISO 16770
10% Igepal CO-630, molded, F50	150	hr	ASTM D1693B
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D, Compression Molded)	63		ISO 868
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus (2.00 mm, Compression Molded)	1450	MPa	ISO 527-2/1BA/50
Tensile Stress			ISO 527-2/1BA/50
Yield, 2.00mm, molded	29.0	MPa	ISO 527-2/1BA/50
Fracture, 2.00mm, molded	40.0	MPa	ISO 527-2/1BA/50
Tensile Strain			ISO 527-2/1BA/50
Yield, 2.00mm, molded	12	%	ISO 527-2/1BA/50
Fracture, 2.00mm, molded	> 1000	%	ISO 527-2/1BA/50
Flexural Modulus (2.00 mm, Compression Molded)	1400	MPa	ISO 178
Flexural Stress (2.00 mm, Compression Molded)	29.0	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			ISO 180/A

-30°C, molded	7.0	kJ/m ²	ISO 180/A
23°C, molded	10	kJ/m ²	ISO 180/A
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (0.45 MPa, Unannealed)	80.0	°C	ISO 75-2/B
Vicat Softening Temperature	129	°C	ISO 306/A
Melting Temperature (DSC)	133	°C	ISO 11357-3
Enthalpy Change	205	J/g	ISO 11357-3
NOTE			

1. FNCT

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