

SABIC® HDPE CLARENE 3H677

High Density Polyethylene

Saudi Basic Industries Corporation (SABIC)

Message:

SABIC® HDPE CLARENE sets a new standard in optics and aesthetics on brightness.

SABIC® HDPE CLARENE 3H677 is a material with a specific molecular weight distribution, typically used for blow moulding of light weight and UN certified cans from 2 until 20 liters.

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

General Information			
Features	High density		
Uses	Container		
Processing Method	Blow molding		
Physical	Nominal Value	Unit	Test Method
Density	0.952	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR)			ISO 1133
190°C/2.16 kg	< 0.10	g/10 min	ISO 1133
190°C/21.6 kg	9.0	g/10 min	ISO 1133
190°C/5.0 kg	0.35	g/10 min	ISO 1133
Environmental Stress-Cracking Resistance (10% Igepal CO-630, Compression Molded, F50)	200	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)	1000	MPa	ISO 527-2/1BA/50
Tensile Stress			ISO 527-2/1BA/50
Yield, 2.00mm, molded	25.0	MPa	ISO 527-2/1BA/50
Fracture, 2.00mm, molded	37.0	MPa	ISO 527-2/1BA/50
Tensile Strain (Break, 2.00 mm, Compression Molded)	> 1000	%	ISO 527-2/1BA/50
Flexural Modulus (2.00 mm, Compression Molded)	1150	MPa	ISO 178
Flexural Stress (2.00 mm, Compression Molded)	26.0	MPa	ISO 178
ESCR (Strain Hardening) - Gp	23.0	MPa	Internal method
Enthalpy Change	200	J/g	ISO 11357-3
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			ISO 180/A
-30°C, molded	15	kJ/m ²	ISO 180/A
23°C, molded	18	kJ/m ²	ISO 180/A

Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (0.45 MPa, Unannealed)	79.0	°C	ISO 75-2/B
Vicat Softening Temperature	127	°C	ISO 306/A
Melting Temperature (DSC)	132	°C	ISO 11357-3

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Recommended distributors for this material

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