

SABIC® HDPE CLARENE 3H673

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 3H673 is a material with a high molecular mass, supplied as pellets.
This product is not intended for and must not be used in any pharmaceutical/medical applications.

General Information			
Features	High molecular weight		
	High density		
Forms	Particle		
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/21.6 kg	2.0	g/10 min	ISO 1133
190°C/5.0 kg	< 0.10	g/10 min	ISO 1133
Environmental Stress-Cracking Resistance ¹ (75°C, 1.00 mm, Rhodacal-DS10, Compression Molded)	100	hr	Internal method
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	31.0	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
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C, Compression Molded)	52	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
Enthalpy Change	200	J/g	ISO 11357-3
NOTE			
1.	3 MPa		

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Recommended distributors for this material

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