SABIC® HDPE CC860V

High Density Polyethylene

Saudi Basic Industries Corporation (SABIC)

Message:

SABIC® HDPE CC860V is typically used for the injection moulding of high demanding applications, such as caps & closures for still water applications.
The material offers a good combination of stiffness and impact resistance.
This product is not intended for and must not be used in any pharmaceutical/medical applications.

General Information			
Features	Good Impact Resistance Good Stiffness High Density		
Uses	Caps Closures		
Processing Method	Injection Molding		
Physical	**Nominal Value**	**Unit**	**Test Method**
Density	0.960	g/cm³	ISO 1183
Melt Mass-Flow Rate (MFR)			ISO 1133
190°C/2.16 kg	7.6	g/10 min	
190°C/5.0 kg	21	g/10 min	
Environmental Stress-Cracking Resistance [1] (60°C, 3.00 mm, Rhodacal-DS10, Compression Molded)	90.0	hr	Internal Method
Hardness	**Nominal Value**	**Unit**	**Test Method**
Shore Hardness (Shore D, Compression Molded)	64		ISO 868
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus (2.00 mm, Compression Molded)	1300	MPa	ISO 527-2/1BA/50
Tensile Stress			ISO 527-2/1BA/50
Yield, 2.00 mm, Compression Molded	30.0	MPa	
Break, 2.00 mm, Compression Molded	15.0	MPa	
Tensile Strain (Break, 2.00 mm, Compression Molded)	> 200	%	ISO 527-2/1BA/50
Flexural Modulus (2.00 mm, Compression Molded)	1500	MPa	ISO 178
Flexural Stress (2.00 mm, Compression Molded)	30.0	MPa	ISO 178
Impact	**Nominal Value**	**Unit**	**Test Method**
Notched Izod Impact Strength (23°C, Compression Molded)	4.0	kJ/m²	ISO 180/A

Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (0.45 MPa, Unannealed)	90.0	°C	ISO 75-2/B
Vicat Softening Temperature	127	°C	ISO 306/A
Melting Temperature (DSC)	133	°C	ISO 11357-3
Enthalpy Change	219	J/g	ISO 11357-3
NOTE			
1.	2 MPa		

Recommended distributors for this material

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