

## Technical Data Sheet

### *Hostalen* ACP 5331 H B

High Density Polyethylene

#### Product Description

*Hostalen* ACP 5331H B is a state of the art HDPE resin, produced by latest *Hostalen* ACP technology. *Hostalen* ACP 5331H B is easy processable on injection moulding and compression moulding equipment. Exceptional organoleptic properties and a good balance of stiffness, toughness and environmental stress cracking resistance make *Hostalen* ACP 5331H B the choice of customers for the production of beverages closures. It's also applicable for many other types of food and nonfood caps and closures, as well as tube shoulders.

<b>Application</b>	Caps & Closures; Collapsible Tubes
<b>Market</b>	Consumer Products; Rigid Packaging
<b>Processing Method</b>	Compression Molding; Injection Molding
<b>Attribute</b>	Good ESCR (Environmental Stress Cracking Resistance); Good Organoleptic Properties; Good Toughness; High Density

Typical Properties	Nominal Value	Units	Test Method
<b>Physical</b>			
Melt Flow Rate			
(190 °C/2.16 kg)	2.1	g/10 min	ISO 1133-1
(190 °C/5.0 kg)	6.3	g/10 min	ISO 1133-1
Density	0.953	g/cm <sup>3</sup>	ISO 1183-1
<b>Mechanical</b>			
Tensile Modulus	950	MPa	ISO 527-1, -2
Tensile Stress at Yield	30	MPa	ISO 527-1, -2
Tensile Strain at Yield	10	%	ISO 527-1, -2
FNCT, (6.0 MPa, 2% Arkopal N100, 50 °C)	6	hr	ISO 16770
<b>Impact</b>			
Charpy Impact Strength - Notched			
(23 °C)	7	kJ/m <sup>2</sup>	ISO 179
(-30 °C)	4	kJ/m <sup>2</sup>	ISO 179
<b>Hardness</b>			
Shore Hardness, (Shore D)	62		ISO 868
Ball Indentation Hardness	51	MPa	ISO 2039-1
<b>Thermal</b>			
Vicat Softening Temperature, (B50)	75	°C	ISO 306

## Notes

These are typical property values not to be construed as specification limits.

Specific recommendations for resin type and processing conditions can only be made when the end use, required properties and fabrication equipment are known.

## Company Information

For further information regarding the LyondellBasell company, please visit <http://www.lyb.com/>.

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