

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.

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

| Typical Properties | Nominal Value | Units | Test Method |
|---|---------------|-------------------|---------------|
| Physical | | | |
| 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 ³ | ISO 1183-1 |
| Mechanical | | | |
| 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 |
| Impact | | | |
| Charpy Impact Strength - Notched | | | |
| (23 °C) | 7 | kJ/m ² | ISO 179 |
| (-30 °C) | 4 | kJ/m ² | ISO 179 |
| Hardness | | | |
| Shore Hardness, (Shore D) | 62 | | ISO 868 |
| Ball Indentation Hardness | 51 | MPa | ISO 2039-1 |
| Thermal | | | |
| 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/>.

© LyondellBasell Industries Holdings, B.V. 2018

Disclaimer

Information in this document is accurate to the best of our knowledge at the date of publication. The document is designed to provide users general information for safe handling, use, processing, storage, transportation, disposal and release and does not constitute any warranty or quality specification, either express or implied, including any warranty of merchantability or fitness for any particular purpose. Users shall determine whether the product is suitable for their use and can be used safely and legally.

In addition to any prohibitions of use specifically noted in this document, LyondellBasell may further prohibit or restrict the sale of its products into certain applications. For further information, please contact a LyondellBasell representative.

Trademarks

The Trademark referenced within the product name is owned or used by the LyondellBasell family of companies.