

Technical Data Sheet

Hostalen PP H1850

Polypropylene, Homopolymer



Product Description

Hostalen PP H1850 is a very low flow homopolymer with good stiffness toughness balance. The grade features yellowing resistance in contact with cooling water. Typical customer use is automotive expansion tanks. *Hostalen* PP H1850 is not intended for medical and pharmaceutical applications.

Regulatory Status

For regulatory compliance information, see *Hostalen* PP H1850 [Product Stewardship Bulletin \(PSB\) and Safety Data Sheet \(SDS\)](#).

Status	Commercial: Active
Availability	Africa-Middle East; Asia-Pacific; Australia and New Zealand; Europe; North America; South & Central America
Application	Non-fuel Reservoirs; Underhood
Market	Automotive
Attribute	Good Stiffness; Good Toughness; Homopolymer; Low Flow

Typical Properties	Nominal Value	Units	Test Method
Physical			
Melt Flow Rate, (230 °C/5.0 kg)	1.2	g/10 min	ISO 1133-1
Density	0.90	g/cm ³	ISO 1183-1
Mechanical			
Tensile Modulus, (1% Secant)	1300	MPa	ISO 527-1, -2
Tensile Stress at Yield, (23 °C, 50 mm/min)	33	MPa	ISO 527-1, -2
Tensile Strain at Yield, (23 °C, 50 mm/min)	14	%	ISO 527-1, -2
Impact			
Charpy Impact Strength - Notched, (23 °C, Type 1, Edgewise, Notch A)	11	kJ/m ²	ISO 179
Charpy Impact Strength - Unnotched, (23 °C, Type 1, Edgewise)	No Break		ISO 179
Thermal			
Vicat Softening Temperature, (A50)	155	°C	ISO 306
Heat Deflection Temperature A, (1.80 MPa, Unannealed)	52	°C	ISO 75A-1, -2
Heat Deflection Temperature B, (0.45 MPa, Unannealed)	95	°C	ISO 75B-1, -2

Notes

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

Processing Techniques

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Recipient Tracking #:
Request #: 907356

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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Users should review the applicable Safety Data Sheet before handling the product.

This product(s) may not be used in the manufacture of any of the following, without prior written approval by Seller for each specific product and application:

- (i) U.S. FDA Class I or II Medical Devices; Health Canada Class I, II or III Medical Devices; European Union Class I or II Medical Devices;
- (ii) film, overwrap and/or product packaging that is considered a part or component of one of the aforementioned medical devices;
- (iii) packaging in direct contact with a pharmaceutical active ingredient and/or dosage form that is intended for inhalation, injection, intravenous, nasal, ophthalmic (eye), digestive, or topical (skin) administration;
- (iv) tobacco related products and applications, electronic cigarettes and similar devices.
- (v) safety components in automotive applications, for example: air bags, air bag unit housings and covers, seat belt mechanisms, brake systems, pedals and pedal supports, steering systems.

The product(s) may not be used in:

- (i) U.S. FDA Class III Medical Devices; Health Canada Class IV Medical Devices; European Class III Medical Devices;
- (ii) applications involving permanent implantation into the body;
- (iii) life-sustaining medical applications.

All references to U.S. FDA, Health Canada, and European Union regulations include another country's equivalent regulatory classification.

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