

### 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 \(SDS\)](#).

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

| Typical Properties                                                   | Nominal Value | Units             | Test Method   |
|----------------------------------------------------------------------|---------------|-------------------|---------------|
| <b>Physical</b>                                                      |               |                   |               |
| Melt Flow Rate, (230 °C/5.0 kg)                                      | 1.2           | g/10 min          | ISO 1133-1    |
| Density                                                              | 0.90          | g/cm <sup>3</sup> | ISO 1183-1    |
| <b>Mechanical</b>                                                    |               |                   |               |
| Flexural Modulus, (23 °C)                                            | 1300          | MPa               | ISO 178       |
| Tensile Modulus, (23 °C)                                             | 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 |
| <b>Impact</b>                                                        |               |                   |               |
| Charpy Impact Strength - Notched, (23 °C, Type 1, Edgewise, Notch A) | 16            | kJ/m <sup>2</sup> | ISO 179       |
| Charpy Impact Strength - Unnotched, (23 °C, Type 1, Edgewise)        | No Break      |                   | ISO 179       |
| <b>Thermal</b>                                                       |               |                   |               |
| 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

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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