

## 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.

For regulatory information please refer to *Hostalen PP H1850 Product Stewardship Bulletin (PSB)*

*Hostalen PP H1850 is not intended for medical and pharmaceutical applications.*

#### Product Characteristics

|                                      |   |
|--------------------------------------|---|
| <b>Status</b>                        | Commercial: Active  |
| <b>Test Method used</b>              | ISO   |
| <b>Features</b>                      | Low Flow , Homopolymer, Good Stiffness , Good Toughness       |
| <b>Typical Customer Applications</b> | Non-fuel Reservoirs, Under-the-Hood & Structural Applications |

| Typical Properties  | Method        | Value    | Unit              |
|---|---------------|----------|-------------------|
| <b>Physical</b>   |               |          |                   |
| Density   | ISO 1183      | 0.902    | g/cm <sup>3</sup> |
| Melt flow rate (MFR) (230°C/5.0kg)                                | ISO 1133      | 1.2      | g/10 min          |
| <b>Mechanical</b>   |               |          |                   |
| Tensile Modulus (Secant)  | ISO 527-1, -2 | 1300     | MPa               |
| Tensile Stress at Yield (50 mm/min)                               | ISO 527-1, -2 | 33.0     | MPa               |
| Tensile Strain at Yield (50 mm/min)                               | ISO 527-1, -2 | 14       | %                 |
| <b>Impact</b>   |               |          |                   |
| Charpy unnotched impact strength (23 °C, Type 1, Edgewise)        | ISO 179       | No Break | kJ/m <sup>2</sup> |
| Charpy notched impact strength (23 °C, Type 1, Edgewise, Notch A) | ISO 179       | 11.0     | kJ/m <sup>2</sup> |
| <b>Thermal</b>  |               |          |                   |
| Heat deflection temperature B (0.45 MPa) Unannealed               | ISO 75B-1, -2 | 90.0     | °C                |
| Heat deflection temperature A (1.80 MPa) Unannealed               | ISO 75A-1, -2 | 55.0     | °C                |
| Vicat softening temperature (B50 (50°C/h 50N))                    | ISO 306       | 85       | °C                |

#### Additional Properties

Mould Shrinkage, Basell Test Method: 1.6 to 1.8 %

#### Notes

*Typical properties; not to be construed as specifications.*

