

## Hostalen PP: H1850, HP1886 and HP1886A

PP grades designed for car expansion tanks – degassing tanks

LyondellBasell has developed the *Hostalen* PP grades H1850 and HP1886 for the production of under-the-hood tanks for storing the coolant mixture of the cooling circuit of the engines and balancing the pressure inside the circuit.

These resins, suited for injection molding, meet the demanding functional requirements that come from the stressing environment in terms of high temperatures and contact with chemicals; they are able to reliably endure, without a significant drop in functionality, over thousands of pressure-temperature cycles and in presence of different water/coolant mixtures.

*Hostalen* PP H1850 is a low flow Homopolymer, characterized by a good stiffness-impact and toughness balance. The grade features yellowing resistance in contact with cooling water and a good long term heat resistance (LHTR).

*Hostalen* PP HP1886 is a Random Copolymer, with good stiffness/toughness balance, outstanding creep and stress cracking resistance. It features low haze and yellowing resistance in contact with cooling water, as well as good long term heat resistance (LHTR).

A new version of HP1886: *Hostalen* HP1886A – is developed by Lyondellbasell specifically for glass fiber compounds and provides, together with exceptional low creep performance and other advantages of HP1886, a very good compatibility with fillers like glass fiber.

Both resins exhibit a good weldability and a confined warpage.

### Product Benefits

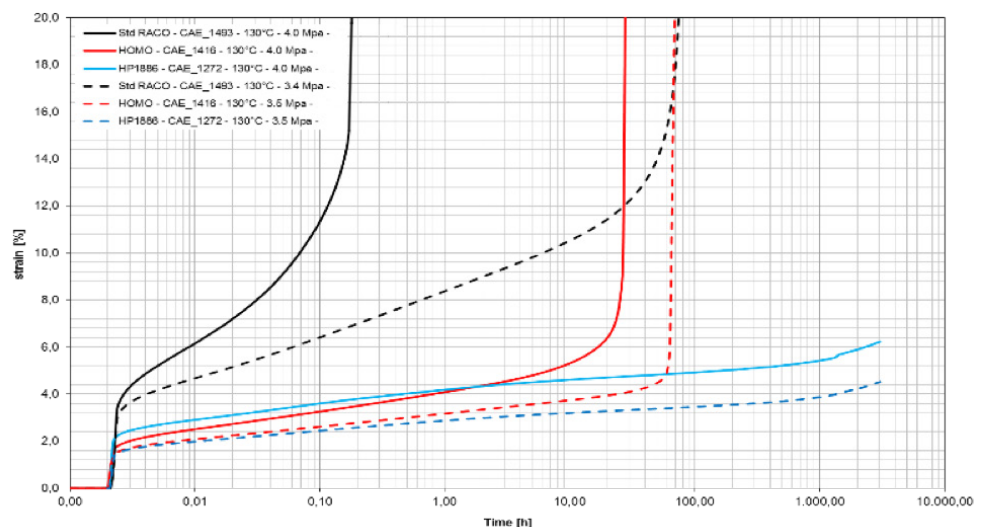
- Additive extraction resistance
- Long term heat resistance
- No deformation under load
- Creep and stress cracking resistance
- Good processability
- Good optical performance

### Hostalen PP HP1886 and HP1886A additional features

- Service temperature up to 130°C
- Outstanding creep resistance

### Typical Applications

- Surge tanks, degassing tanks for combustion engine and electric vehicle cooling systems



\*The creep performance of *Hostalen* HP1886A is identical to HP1886

### Resin properties

Physical properties	Value	H1850	HP1886	HP1886A
Melt Flow Rate (230 °C/2.16 kg)	ISO 1113	1.2 g/10 min	1.4 g/10 min	1.4 g/10 min
Density	ISO 1183	0.90 g/cm <sup>3</sup>	0.90 g/cm <sup>3</sup>	0.90 g/cm <sup>3</sup>
Mechanical				
Tensile Modulus	ISO 527-1, -2	1300 MPa	1400 MPa	1400 MPa
Tensile Stress at Yield	ISO 527-1, -2	33 MPa	34 MPa	34 MPa
Elongation at Yield	ISO 527-1, -2	14 %	10 %	10 %
Impact Strength				
Charpy Impact Strength N. 23°C	ISO 179	16 kJ/m <sup>2</sup>	14 kJ/m <sup>2</sup>	14 kJ/m <sup>2</sup>
Thermal				
Heat Deflection Temp. B (0.45 MPa unannealed)	ISO 75B-1,2	95°C	101°C	101°C
Vicat Softening Temp. (A50), 9.81 N	ISO 306	155°C	151°C	151°C

Note: Typical properties, not to be considered as specifications.

# ABOUT US

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