

Technical Data Sheet

Hostalen PP HP1886



Polypropylene, Random Copolymer

Product Description

Hostalen PP HP1886 is a very low flow random copolymer with good stiffness/toughness balance, outstanding creep and stress cracking resistance. Hostalen PP HP1886 features low haze and yellowing resistance in contact with cooling water. Typical customer use is automotive expansion tanks. Hostalen PP HP1886 is not intended for medical and pharmaceutical applications.

| | |
|--------------------------|---|
| Application | Non-fuel Reservoirs; Underhood |
| Market | Automotive |
| Processing Method | Injection Molding |
| Attribute | Good Chemical Resistance; Good Heat Resistance; Good Stiffness; Good Toughness; High Creep Resistance; Low Flow |

| Typical Properties | Nominal Value | Units | Test Method |
|--|---------------|-------------------|---------------|
| Physical | | | |
| Melt Flow Rate, (230 °C/5.0 kg) | 1.4 | g/10 min | ISO 1133-1 |
| Density | 0.90 | g/cm ³ | ISO 1183-1 |
| Mechanical | | | |
| Flexural Modulus, (23 °C) | 1300 | MPa | ISO 178 |
| Tensile Modulus, (23 °C) | 1400 | MPa | ISO 527-1, -2 |
| Tensile Stress at Yield, (23 °C, 50 mm/min) | 34 | MPa | ISO 527-1, -2 |
| Tensile Strain at Yield, (23 °C, 50 mm/min) | 10 | % | ISO 527-1, -2 |
| Impact | | | |
| Charpy Impact Strength - Notched, (23 °C, Type 1, Edgewise, Notch A) | 14 | kJ/m ² | ISO 179 |
| Charpy Impact Strength - Unnotched, (23 °C, Type 1, Edgewise) | No Break | | ISO 179 |
| Thermal | | | |
| Vicat Softening Temperature, (A50) | 151 | °C | ISO 306 |
| Heat Deflection Temperature A, (1.80 MPa, Unannealed) | 54 | °C | ISO 75A-1, -2 |
| Heat Deflection Temperature B, (0.45 MPa, Unannealed) | 101 | °C | ISO 75B-1, -2 |