

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.

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			
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
Impact			
Charpy Impact Strength - Notched, (23 °C, Type 1, Edgewise, Notch A)	16	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