



Hostalen PP H5416

Polypropylene, Random Copolymer

Product Description

Hostalen PP H5416 is a natural polypropylene random copolymer. The product has a high heat- and extremely high extraction stability. The material Hostalen PP H5416 has been certified by ISO9080 and according to ISO12162 as PP100. For further details about the suitable applications for this material please contact LyondellBasell. For regulatory information please refer to *Hostalen* PP H5416 Product Stewardship Bulletin (PSB). Hostalen PP H5416 is not intended for medical and pharmaceutical applications.

Product Characteristics

Status	Commercial: Active
Test Method used	ISO
Availability	Europe
Processing Methods	Extrusion Pipe Sheet and Semi Finished Products
Features	Antioxidant, Random Copolymer
Typical Customer Applications	Industrial, Plumbing, Heating & Cooling

Typical Properties	Method	Value	Unit
Physical			
Density	ISO 1183	0.897	g/cm ³
Melt flow rate (MFR)	ISO 1133		
(230 °C/2.16Kg)		0.3	g/10 min
(190 °C/5.0kg)		0.5	g/10 min
(230 °C/5.0kg)		1.3	g/10 min
Mechanical			
Tensile Modulus (23 °C, v = 1 mm/min, Secant)	ISO 527-1, -2	850	MPa
Tensile Stress at Yield (23 °C, v = 50 mm/min)	ISO 527-1, -2	24	MPa
Tensile Strain at Yield (23 °C, v = 50 mm/min)	ISO 527-1, -2	13	%
MRS classification	ISO 9080	10	MPa
Impact			
Charpy notched impact strength	ISO 179		
(23 °C)		100	kJ/m ²
(0 °C)		12	kJ/m ²
Hardness			
Shore hardness (Shore D (3 sec))	ISO 868	65	
Ball indentation hardness (H 132/30)	ISO 2039-1	45	MPa
Thermal			
Heat deflection temperature B (0.45 MPa) Unannealed	ISO 75B-1, -2	70	°C
Vicat softening temperature (VST/A/50 K/h (10 N))	ISO 306	132	°C
Melting temperature	DSC	141	°C
<i>Note: ISO 11357-3: heating rate: 10K/min, 2nd heating</i>			

Additional Properties

Processing:

The recommended conditions will depend on the typ of equipment used and the size and wall thickness of the pipe or profile required.

Recommended melt temperatures: 200-230 °C

Recommended injection moulding temperatures: 200-280 °C

Notes

Typical properties; not to be construed as specifications.