

Technical Data Sheet

Hostalen PP H5416

Polypropylene, Random Copolymer

Product Description

Hostalen PP H5416 is a natural random polypropylene copolymer. The material Hostalen PP H5416 has been certified by ISO9080 and according to ISO12162 as PP100. The product is typically used by customers in the application of extruded pipes for hot and cold water transport under pressure and injection molded fittings. For further details about the suitable applications for this material please contact LyondellBasell.

This grade is not intended for medical and pharmaceutical applications.

This grade is supported for use in drinking water applications.

Application	Drinking Water Pipe; Plumbing, Heating & Cooling
Market	Industrial, Building & Construction; Pipe
Processing Method	Injection Molding; Pipe
Attribute	Good Organoleptic Properties; Random Copolymer

Typical Properties	Nominal Value	Units	Test Method
Physical			
Melt Flow Rate			
(230 °C/2.16 kg)	0.3	g/10 min	ISO 1133-1
(230 °C/5.0 kg)	1.3	g/10 min	ISO 1133-1
(190 °C/5.0 kg)	0.5	g/10 min	ISO 1133-1
Density	0.897	g/cm ³	ISO 1183-1
Mechanical			
Tensile Modulus, (23 °C)	850	MPa	ISO 527-1, -2
Tensile Stress at Yield	24	MPa	ISO 527-1, -2
Tensile Strain at Yield	13	%	ISO 527-1, -2
MRS Classification	10	MPa	ISO 9080
Impact			
Charpy Impact Strength - Notched			
(23 °C)	89	kJ/m ²	ISO 179
(0 °C)	12	kJ/m ²	ISO 179
(-20 °C)	2.7	kJ/m ²	ISO 179
Hardness			
Ball Indentation Hardness, (H 132/30)	45	MPa	ISO 2039-1
Thermal			
Vicat Softening Temperature, (A50)	132	°C	ISO 306
DSC Melting Point	139	°C	DSC