

Hostalen PP H5416

Polypropylene Random Copolymer

LyondellBasell Industries

Message:

Hostalen PP H5416 is a natural polypropylene random copolymer.
The product has a high heat- and extremely high extraction stability.
For regulatory information please refer to Hostalen PP H5416 Product Stewardship Bulletin (PSB).
It is not intended for medical and pharmaceutical applications.

General Information			
Additive	Antioxidant		
Features	Antioxidant		
	Extraction Resistant		
	High Heat Resistance		
	Random Copolymer		
Uses	Industrial Applications		
	Piping		
Appearance	Natural Color		
Forms	Pellets		
Processing Method	Extrusion		
	Pipe Extrusion		
	Sheet Extrusion		

Physical	Nominal Value	Unit	Test Method
Density	0.897	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR)			ISO 1133
190°C/5.0 kg	0.50	g/10 min	
230°C/2.16 kg	0.30	g/10 min	
230°C/5.0 kg	1.3	g/10 min	
Viscosity Number (Reduced Viscosity)	420.0	ml/g	ISO 1628

Hardness	Nominal Value	Unit	Test Method
Shore Hardness (Shore D, 3 sec)	65		ISO 868
Ball Indentation Hardness (H 132/30)	45.0	MPa	ISO 2039-1

Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus - Secant (23°C)	850	MPa	ISO 527-2/1
Tensile Stress (Yield, 23°C)	24.0	MPa	ISO 527-2/50
Tensile Strain (Yield, 23°C)	13	%	ISO 527-2/50
Flexural Modulus (23°C)	850	MPa	ISO 178

Impact	Nominal Value	Unit	Test Method
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Charpy Notched Impact Strength			ISO 179
0°C	12	kJ/m ²	
23°C	100	kJ/m ²	
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, Unannealed	70.0	°C	ISO 75-2/B
1.8 MPa, Unannealed	49.0	°C	ISO 75-2/A
Vicat Softening Temperature			
--	132	°C	ISO 306/A50
--	69.0	°C	ISO 306/B50
Melting Temperature ¹	141	°C	ISO 11357-3
CLTE - Flow (23 to 80°C)	1.5E-4	cm/cm/°C	ISO 11359-2
Thermal Conductivity	0.24	W/m/K	ASTM C177
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	> 1.0E+14	ohms	IEC 60093
Injection	Nominal Value	Unit	
Processing (Melt) Temp	200 to 280	°C	
Extrusion	Nominal Value	Unit	
Melt Temperature	200 to 230	°C	
NOTE			
1.	10°C/min, 2nd heating		

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