

TOTAL Polypropylene PPH 12020

Polypropylene Homopolymer

TOTAL Refining & Chemicals

Message:

Polypropylene PPH 12020 is a clarified high fluidity homopolymer with a Melt Flow Index of 60 g/10 min. Polypropylene PPH 12020 has been designed with a very high stiffness and an outstanding transparency. It is suitable for the injection moulding of transparent packaging.

General Information			
Additive	Clarifier		
Features	Food Contact Acceptable		
	High Clarity		
	High Flow		
	High Stiffness		
Uses	Packaging		
Agency Ratings	EU 2002/72/EC		
	EU 2004/1/EC		
	EU 2004/19/EC		
	EU 2005/79/EC		
	EU 2007/19/EC		
	EU 2008/39/EC		
	EU 975/2009/EC		
	FDA 21 CFR 177.1520		
Appearance	Clear/Transparent		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	0.905	g/cm ³	ISO 1183
Apparent Density	0.53	g/cm ³	ISO 60
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	60	g/10 min	ISO 1133
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	98		ISO 2039-2
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	1850	MPa	ISO 527-2
Tensile Stress (Yield)	37.0	MPa	ISO 527-2
Tensile Strain (Yield)	8.0	%	ISO 527-2
Flexural Modulus	1800	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	4.0	kJ/m ²	ISO 179

Notched Izod Impact Strength (23°C)	3.5	kJ/m ²	ISO 180
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, Unannealed	100	°C	ISO 75-2/B
1.8 MPa, Unannealed	55.0	°C	ISO 75-2/A
Vicat Softening Temperature			
--	153	°C	ISO 306/A50
--	90.0	°C	ISO 306/B50
Melting Temperature (DSC)	165	°C	ISO 3146

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