



TotalEnergies

Refining & Chemicals
Polymers

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Polypropylene PPH 10012

Technical data sheet
Polypropylene – Homopolymer
Produced in Europe

Description

Polypropylene PPH 10012 is a nucleated and antistatic homopolymer polypropylene obtained by controlled rheology.

Polypropylene PPH 10012 is intended for high speed injection moulding of household articles, lightweight dairy tubs and goblets and ice cream boxes.

Characteristics

	Method	Unit	Typical Value
Rheological properties			
Melt Flow Index 230°C/2.16 kg	ISO 1133	g/10 min	42
Mechanical properties			
Tensile Strength at Yield	ISO 527-2	MPa	34
Elongation at Yield	ISO 527-2	%	9
Tensile modulus	ISO 527-2	MPa	1600
Flexural modulus	ISO 178	MPa	1500
Izod Impact Strength (notched) at 23°C	ISO 180	kJ/m ²	3
Charpy Impact Strength (notched) at 23°C	ISO 179	kJ/m ²	4
Hardness Rockwell - R-scale	ISO 2039-2		98
Thermal properties			
Melting Point	ISO 3146	°C	165
Vicat Softening Point	ISO 306	°C	
50N-50°C per hour			87
10N-50°C per hour			152
Heat Deflection Temperature	ISO 752	°C	
1.80 MPa - 120°C per hour			56
0.45 MPa - 120°C per hour			105
Other physical properties			
Density	ISO 1183	g/cm ³	0.905
Bulk Density	ISO 1183	g/cm ³	0.525

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