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Polypropylene PPC 12712

TotalEnergies
Refining & Chemicals
Polymers

Technical data sheet
Polypropylene – Heterophasic Copolymer
Produced in Europe

Description

Polypropylene PPC 12712 is a nucleated and controlled-rheology heterophasic copolymer with a very high Melt Flow Index of 70 g/10 min.
Polypropylene PPC 12712 is characterized by good stiffness and impact resistance as well as low shrinkage and low warpage. It has been formulated for excellent antistatic properties.
Polypropylene PPC 12712 has been developed for high speed injection moulding of thin walled packaging containers and household articles.

Characteristics

	Method	Unit	Typical Value
Rheological properties			
Melt Flow Index 230°C/2.16 kg	ISO 1133	g/10 min	70
Mechanical properties			
Tensile Strength at Yield	ISO 527-2	MPa	25
Elongation at Yield	ISO 527-2	%	5
Tensile modulus	ISO 527-2	MPa	1300
Flexural modulus	ISO 178	MPa	1200
Izod Impact Strength (notched)	ISO 180	kJ/m²	
at 23°C			7
at -20°C			3.5
Charpy Impact Strength (notched)	ISO 179	kJ/m²	
at 23°C			8
at -20°C			4
Hardness Rockwell - R-scale	ISO 2039-2		84
Thermal properties			
Melting Point	ISO 3146	°C	165
Vicat Softening Point	ISO 306	°C	
50N-50°C per hour			70
10N-50°C per hour			140
Heat Deflection Temperature	ISO 752	°C	
1.80 MPa - 120°C per hour			55
0.45 MPa - 120°C per hour			100
Other physical properties			
Density	ISO 1183	g/cm³	0.905
Bulk Density	ISO 1183	g/cm³	0.525

Handling and storage

Please refer to the safety data sheet (SDS) for handling and storage information. It is advisable to convert the product within one year after delivery provided storage conditions are used as given in the SDS of our product. SDS may be obtained from the website: www.polymers.totalenergies.com.