TOTAL

Refining & Chemicals
Polymers

Technical data sheet
Polypropylene – Heterophasic Copolymer
Produced in Europe

Description

Polypropylene PPC 11812 has been developed for high speed injection moulding of thin walled packaging containers requiring top level impact resistance at cold temperature (-20°C). It is characterized by a high Melt Flow Index of 50 g/10 min, and allows an optimization of the injection parameters as for example a reduction of the cycle time, while keeping properties even at cold temperature (impact).

Characteristics

	Method	Unit	Typical Value
Rheological properties			
Melt Flow Index 230°C/2.16 kg	ISO 1133	g/10 min	50
Mechanical properties			
Tensile Strength at Yield	ISO 527-2	MPa	24
Elongation at Yield	ISO 527-2	%	5
Tensile modulus	ISO 527-2	MPa	1150
Flexural modulus	ISO 178	MPa	1100
Izod Impact Strength (notched)	ISO 180	kJ/m²	
at 23°C			13.5
at -20°C			6.5
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			48
0.45 MPa - 120°C per hour			90
Other physical properties			
Density	ISO 1183	g/cm³	0.905
Bulk Density	ISO 1183	g/cm³	0.525

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