

Description

Polypropylene PPC 11812 S01 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/m ²	
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/cm ³	0.905
Bulk Density	ISO 1183	g/cm ³	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: <http://www.totalrefiningchemicals.com>

An Injection Moulding troubleshooting guide is available upon request.

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Polypropylene

