

TOTAL Polypropylene PPC 11812 S01

Polypropylene Impact Copolymer

TOTAL Refining & Chemicals

Message:

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).

General Information			
Features	Good Impact Resistance		
	High Flow		
	Low Temperature Impact Resistance		
Uses	Packaging		
	Thin-walled Packaging		
Agency Ratings	EC 1907/2006 (REACH)		
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 1183
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	50	g/10 min	ISO 1133
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	1150	MPa	ISO 527-2
Tensile Stress (Yield)	24.0	MPa	ISO 527-2
Tensile Strain (Yield)	5.0	%	ISO 527-2
Flexural Modulus	1100	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact Strength			ISO 180
-20°C	6.5	kJ/m ²	
23°C	14	kJ/m ²	
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature ¹			
0.45 MPa, Unannealed	90.0	°C	ISO 75-2/B
1.8 MPa, Unannealed	48.0	°C	ISO 75-2/A
Vicat Softening Temperature			
--	140	°C	ISO 306/A50
--	70.0	°C	ISO 306/B50
Melting Temperature (DSC)	165	°C	ISO 3146
NOTE			

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