

This product is Total Ecosolutions.



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Description

Polypropylene PPC 9612 has been developed specifically for the injection moulding of crates and is characterized by a high Melt Flow Index of 20 g/10 min. It allows an optimization of the injection parameters as for example a reduction of the cycle time, while keeping the keys properties for crates, namely rigidity, impact (at cold temperature) and long term creep resistance.

Other injection molding applications like pails, food packaging, lids could benefit from this outstanding properties combination.

Characteristics

	Method	Unit	Typical Value
Rheological properties			
Melt Flow Index 230°C/2.16 kg	ISO 1133	g/10 min	20
Mechanical properties			
Tensile Strength at Yield	ISO 527-2	MPa	24
Elongation at Yield	ISO 527-2	%	5
Tensile modulus	ISO 527-2	MPa	1250
Flexural modulus	ISO 178	MPa	1200
Izod Impact Strength (notched)	ISO 180	kJ/m ²	
at 23°C			12
at -20°C			6.5
Hardness Rockwell - R-scale	ISO 2039-2		82
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