

TOTAL Polypropylene PPC 9712

Polypropylene Impact Copolymer

TOTAL Refining & Chemicals

Message:

Polypropylene PPC 9712 is heterophasic copolymer with a Melt Flow Index of 25g/10 min combining good fluidity and mechanical properties. Polypropylene PPC 9712 is characterized by excellent impact resistance and antistatic properties and has been formulated to allow faster cycling through early demoulding. Polypropylene PPC 9712 has been developed specifically for the injection moulding of crates, pails and other heavy duty applications.

General Information			
Features	Antistatic		
	Fast Molding Cycle		
	Good Flow		
	Good Impact Resistance		
Uses	Crates		
	Pails		
Agency Ratings	EC 1907/2006 (REACH)		
RoHS Compliance	RoHS Compliant		
Forms	Pellets		
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 60
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	25	g/10 min	ISO 1133
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	80		ISO 2039-2
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	1150	MPa	ISO 527-2
Tensile Stress (Yield)	23.0	MPa	ISO 527-2
Tensile Strain (Yield)	6.0	%	ISO 527-2
Flexural Modulus	1050	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179
-20°C	6.0	kJ/m ²	
23°C	> 40	kJ/m ²	
Notched Izod Impact Strength			ISO 180
-20°C	5.5	kJ/m ²	
23°C	> 40	kJ/m ²	

Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
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			
--	135	°C	ISO 306/A50
--	65.0	°C	ISO 306/B50
Melting Temperature (DSC)	165	°C	ISO 3146

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