

TOTAL Polypropylene PPC 10712

Polypropylene Impact Copolymer

TOTAL Refining & Chemicals

Message:

Polypropylene PPC 10712 is a nucleated and controlled-rheology heterophasic copolymer with a high Melt Flow Index of 40 g/10 min.

Polypropylene PPC 10712 is characterized by good stiffness and impact resistance as well as low shrinkage and low warpage.

Polypropylene PPC 10712 has been developed for high speed injection moulding of thin walled packaging containers and household articles.

Polypropylene PPC 10712 has been specially formulated to give antistatic performance.

General Information			
Additive	Antistatic		
	Nucleating Agent		
Features	Antistatic		
	Controlled Rheology		
	Good Impact Resistance		
	Good Stiffness		
	High Flow		
	Low Shrinkage		
	Low Warpage		
	Nucleated		
Uses	Household Goods		
	Thin-walled Containers		
	Thin-walled Packaging		
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)	40	g/10 min	ISO 1133
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	83		ISO 2039-2
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	1400	MPa	ISO 527-2
Tensile Stress (Yield)	25.0	MPa	ISO 527-2
Tensile Strain (Yield)	5.0	%	ISO 527-2

Flexural Modulus	1300	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179
-20°C	4.5	kJ/m ²	
23°C	9.0	kJ/m ²	
Notched Izod Impact Strength			ISO 180
-20°C	4.5	kJ/m ²	
23°C	8.0	kJ/m ²	
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, Unannealed	100	°C	ISO 75-2/B
1.8 MPa, Unannealed	55.0	°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

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