TOTAL Polypropylene PPC 9642

Polypropylene Impact Copolymer

TOTAL Refining & Chemicals

Message:

Polypropylene PPC 9642 is nucleated heterophasic copolymer with a Melt Flow Index of 26 g/10 min combining good fluidity and mechanical properties. Polypropylene PPC 9642 is characterized by improved stiffness, creep resistance, high impact resistance, excellent antistatic properties and has been formulated to allow faster cycling through early demoulding.
Polypropylene PPC 9642 has been developed specifically for the injection moulding of buckets, pails, toys, housewares and garden furniture.

General Information			
Additive	Nucleating Agent		
Features	Antistatic Fast Molding Cycle Good Creep Resistance Good Flow Good Stiffness High Impact Resistance Nucleated		
Uses	Furniture Household Goods Pails Toys		
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/cm³	ISO 1183
Apparent Density	0.53	g/cm³	ISO 60
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	26	g/10 min	ISO 1133
Hardness	**Nominal Value**	**Unit**	**Test Method**
Rockwell Hardness (R-Scale)	87		ISO 2039-2
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus	1600	MPa	ISO 527-2
Tensile Stress (Yield)	28.0	MPa	ISO 527-2
Tensile Strain (Yield)	5.5	%	ISO 527-2
Flexural Modulus	1500	MPa	ISO 178
Impact	**Nominal Value**	**Unit**	**Test Method**

Charpy Notched Impact Strength			ISO 179
-20°C	5.5	kJ/m²	
23°C	9.0	kJ/m²	
Notched Izod Impact Strength			ISO 180
-20°C	5.0	kJ/m²	
23°C	8.0	kJ/m²	

Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, Unannealed	95.0	°C	ISO 75-2/B
1.8 MPa, Unannealed	53.0	°C	ISO 75-2/A
Vicat Softening Temperature			
--	145	°C	ISO 306/A50
--	75.0	°C	ISO 306/B50
Melting Temperature (DSC)	165	°C	ISO 3146

Recommended distributors for this material

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