

TOTAL Polypropylene PPC 4640

Polypropylene Impact Copolymer

TOTAL Refining & Chemicals

Message:

Polypropylene PPC 4640 is a nucleated heterophasic copolymer with a Melt Flow Index of 3.5 g/10 min.
Polypropylene PPC 4640 is characterized by good stiffness and remarkable impact resistance coupled with high creep resistance.
Polypropylene PPC 4640 has been developed for injection moulding of chair shells, pails, crates and other articles requiring good mechanical properties.

General Information			
Additive	Nucleating Agent		
Features	Good Creep Resistance		
	Good Stiffness		
	Nucleated		
Uses	Crates		
	Furniture		
	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)	3.5	g/10 min	ISO 1133
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	86		ISO 2039-2
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	1400	MPa	ISO 527-2
Tensile Stress (Yield)	27.0	MPa	ISO 527-2
Tensile Strain (Yield)	6.0	%	ISO 527-2
Flexural Modulus	1350	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179
-20°C	7.0	kJ/m ²	
23°C	25	kJ/m ²	
Notched Izod Impact Strength			ISO 180
-20°C	6.0	kJ/m ²	
23°C	25	kJ/m ²	

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			
--	140	°C	ISO 306/A50
--	70.0	°C	ISO 306/B50
Melting Temperature (DSC)	165	°C	ISO 3146

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