

TOTAL Polypropylene PPC 3640

Polypropylene Impact Copolymer

TOTAL Refining & Chemicals

Message:

Polypropylene PPC 3640 is a nucleated heterophasic copolymer with a Melt Flow Index of 1.3 g/10 min.
Polypropylene PPC 3640 is characterized by improved stiffness, creep resistance and high impact resistance.
Polypropylene PPC 3640 has been developed specifically for the extrusion of corrugated cardboard, corrugated and twin walled pipes, conduit pipe and other extrusion applications.

General Information			
Additive	Nucleating agent		
Features	Nucleated		
	Rigid, good		
	Impact resistance, high		
	Good creep resistance		
Uses	Bellows		
	Piping system		
Agency Ratings	EC 1907/2006 (REACH)		
RoHS Compliance	RoHS compliance		
Forms	Particle		
Processing Method	Pipeline extrusion molding		
	Extrusion		

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)	1.3	g/10 min	ISO 1133

Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	82		ISO 2039-2

Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	1350	MPa	ISO 527-2
Tensile Stress (Yield)	27.0	MPa	ISO 527-2
Tensile Strain (Yield)	6.0	%	ISO 527-2
Flexural Modulus	1300	MPa	ISO 178

Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179
-20°C	8.0	kJ/m ²	ISO 179
23°C	> 50	kJ/m ²	ISO 179

Notched Izod Impact			ISO 180
-20°C	7.0	kJ/m ²	ISO 180
23°C	> 50	kJ/m ²	ISO 180
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, not annealed	92.0	°C	ISO 75-2/B
1.8 MPa, not annealed	52.0	°C	ISO 75-2/A
Vicat Softening Temperature			
--	150	°C	ISO 306/A50
--	75.0	°C	ISO 306/B50
Melting Temperature (DSC)	165	°C	ISO 3146
Additional Information			

Notched Charpy Impact, ISO 179, 23°C: >50 kJ/m²Notched Izod Impact Strength, ISO 180, 23°C: >50 kJ/m²

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