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Polymers

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Polypropylene PPC 7642

Technical data sheet
Polypropylene – Heterophasic Copolymer
Produced in Europe

Description

Polypropylene PPC 7642 is a nucleated and antistatic heterophasic copolymer with a Melt Flow Index of 16 g/10 min.

Polypropylene PPC 7642 is characterized by a very high stiffness.

Polypropylene PPC 7642 has been developed for a wide range of injection moulding applications including battery cases, electrical appliance housings, toys, closures and lids.

Characteristics

	Method	Unit	Typical Value
Rheological properties			
Melt Flow Index 230°C/2.16 kg	ISO 1133	g/10 min	16
Mechanical properties			
Tensile Strength at Yield	ISO 527-2	MPa	27
Elongation at Yield	ISO 527-2	%	5
Tensile modulus	ISO 527-2	MPa	1600
Flexural modulus	ISO 178	MPa	1500
Izod Impact Strength (notched)	ISO 180	kJ/m ²	
at 23°C			8
at -20°C			5
Charpy Impact Strength (notched)	ISO 179	kJ/m ²	
at 23°C			9
at -20°C			5
Hardness Rockwell - R-scale	ISO 2039-2		90
Thermal properties			
Melting Point	ISO 3146	°C	165
Vicat Softening Point	ISO 306	°C	
50N-50°C per hour			75
10N-50°C per hour			145
Heat Deflection Temperature	ISO 752	°C	
1.80 MPa - 120°C per hour			53
0.45 MPa - 120°C per hour			95
Other physical properties			
Density	ISO 1183	g/cm ³	0.905
Bulk Density	ISO 1183	g/cm ³	0.525

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