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Refining & Chemicals
Polymers

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Polypropylene PPC 3645

Technical data sheet
Polypropylene – Heterophasic Copolymer
Produced in Europe

Description

Polypropylene PPC 3645 polypropylene is a nucleated heterophasic copolymer with a Melt Flow Index of 1.3 g/10 min.

Polypropylene PPC 3645 polypropylene is characterized by improved stiffness, creep resistance and high impact resistance.

Polypropylene PPC 3645 has been developed specifically for the extrusion of corrugated cardboard, corrugated and twin walled pipes, conduit pipe and other extrusion applications.

Characteristics

	Method	Unit	Typical Value
Rheological properties			
Melt Flow Index 230°C/2.16 kg	ISO 1133	g/10 min	1.3
Mechanical properties			
Tensile Strength at Yield	ISO 527-2	MPa	29
Elongation at Yield	ISO 527-2	%	6
Tensile modulus	ISO 527-2	MPa	1500
Flexural modulus	ISO 178	MPa	1400
Izod Impact Strength (notched)	ISO 180	kJ/m ²	
at 23°C			>50
at -20°C			9
Charpy Impact Strength (notched)	ISO 179	kJ/m ²	
at 23°C			>50
at -20°C			10
Hardness Rockwell - R-scale	ISO 2039-2		82
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			151
Heat Deflection Temperature	ISO 752	°C	
1.80 MPa - 120°C per hour			54
0.45 MPa - 120°C per hour			92
Other physical properties			
Density	ISO 1183	g/cm ³	0.905
Bulk Density	ISO 1183	g/cm ³	0.525

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