



TotalEnergies
Refining & Chemicals
Polymers

Polypropylene PPC 1645

Technical data sheet
Polypropylene – Heterophasic Copolymer
Produced in Europe

Description

Polypropylene PPC 1645 is a nucleated heterophasic (block) copolymer with a Melt Flow Index of 0.3 g/10'. This resin has a long-term heat stabilization package. It offers a very high stiffness whilst keeping good impact strength (even at low temperatures) and excellent processability.

PPC 1645 has been designed for the extrusion of sewerage & drainage pipes with smooth or corrugated wall structures. It allows pipe wall thickness reduction hence converters cost savings. Polypropylene PPC 1645 can also be used for blow moulding and other extrusion applications.

Characteristics

	Method	Unit	Typical Value
Rheological properties			
Melt Flow Index 230°C/2.16 kg	ISO 1133	g/10 min	0.3
Mechanical properties			
Tensile Strength at Yield	ISO 527-2	MPa	32
Tensile Strain at Yield	ISO 527-2	%	8
Tensile modulus	ISO 527-2	MPa	1800
Flexural modulus	ISO 178	MPa	1700
Izod Impact Strength (notched)	ISO 180	kJ/m ²	
at 23°C			>50
at -20°C			7
Charpy Impact Strength (notched)	ISO 179	kJ/m ²	
at 23°C			>50
at -20°C			5
Thermal properties			
Melting Point	ISO 3146	°C	165
Oxidation Induction Time (OIT), 200°C	EN 728	min	>10
Other physical properties			
Density	ISO 1183	g/cm ³	0.905

Handling and storage

Please refer to the safety data sheet (SDS) for handling and storage information. It is advisable to convert the product within one year after delivery provided storage conditions are used as given in the SDS of our product. SDS may be obtained from the website: www.polymers.totalenergies.com.

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