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/m²	
at 23°C			>50
at -20°C			7
Charpy Impact Strength (notched)	ISO 179	kJ/m²	
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/cm³	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.

Information contained in this publication is true and accurate at the time of publication and to the best of our knowledge. The nominal values stated herein are obtained using laboratory test specimens. These are typical values not to be construed as specification limits. Before using one of the products mentioned herein, customers and other users should take all care in determining the suitability of such product for the intended use. Unless specifically indicated, the products mentioned herein are not suitable for applications in the pharmaceutical or medical sector. The Companies within TotalEnergies Petrochemicals do not accept any liability whatsoever arising from the use of this information or the use, application or processing of any product described herein. No information contained in this publication can be considered as a suggestion to infringe patents. The Companies disclaim any liability that may be claimed for infringement or alleged infringement of patents.

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