TotalEnergies

Refining & Chemicals
Polymers

Polypropylene PPH 7060

Technical data sheet
Polypropylene – Homopolymer
Produced in Europe

Description

Polypropylene PPH 7060 is a homopolymer with a medium molecular weight distribution and a Melt Flow Index of 12 g/10 min for the cast extrusion of films with excellent optical properties and high stiffness.

Polypropylene PPH 7060 is intended for applications like sensitive food packaging, labeling, …

Characteristics

	Method	Unit	Typical Value
Rheological properties			
Melt Flow Index 230°C/2.16 kg	ISO 1133	g/10 min	12
Mechanical properties			
Tensile Strength at Yield	ISO 527-2	MPa	32
Elongation at Yield	ISO 527-2	%	10
Tensile modulus	ISO 527-2	MPa	1550
Flexural modulus	ISO 178	MPa	1450
Izod Impact Strength (notched) at 23°C	ISO 180	kJ/m²	3.5
Charpy Impact Strength (notched) at 23°C	ISO 179	kJ/m²	4.5
Hardness Rockwell - R-scale	ISO 2039-2		95
Thermal properties			
Melting Point	ISO 3146	°C	165
Vicat Softening Point	ISO 306	°C	
50N-50°C per hour			87
10N-50°C per hour			152
Heat Deflection Temperature	ISO 752	°C	
1.80 MPa - 120°C per hour			55
0.45 MPa - 120°C per hour			100
Other physical properties			
Density	ISO 1183	g/cm³	0.905
Bulk Density	ISO 1183	g/cm³	0.525

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.

Polypropylene

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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Additional Properties: typical film properties

	Method	Unit	Typical Value
Optical properties			
Gloss 45°	ASTM D 2457		85
Haze	ISO 14782	%	4
Mechanical properties			
Tensile Strength at Yield MD / TD *	ISO 527-3	MPa	23 / 23
Tensile Strength at Break MD / TD *	ISO 527-3	MPa	44 / 34
Tensile Elongation at Break MD / TD *	ISO 527-3	%	500 / 600
Dart Impact	ISO 7765-1	g	270
Elmendorf MD / TD *	ISO 6383-2	N/mm	10 / 28

* MD : Machine Direction TD : Transverse Direction

Properties measured on a 50µm thick film produced on a cast film line following TotalEnergies internal conditions.

When considering these film properties, it should be taken into consideration that film properties are strongly dependent from processing conditions.

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