TotalEnergies

Refining & Chemicals
Polymers

# Polypropylene PPH 9020

Technical data sheet
Polypropylene – Homopolymer
Produced in Europe

## Description

Polypropylene PPH 9020 is a clarified homopolymer with a Melt Flow Index of 25 g/min.

Polypropylene PPH 9020 has been designed with a very high stiffness and an outstanding transparency.

## Characteristics

| | Method | Unit | Typical Value |
|---|---|---|---|
| **Rheological properties** | | | |
| Melt Flow Index 230°C/2.16 kg | ISO 1133 | g/10 min | 25 |
| **Mechanical properties** | | | |
| Tensile Strength at Yield | ISO 527-2 | MPa | 37 |
| Elongation at Yield | ISO 527-2 | % | 8 |
| Tensile modulus | ISO 527-2 | MPa | 1700 |
| Flexural modulus | ISO 178 | MPa | 1600 |
| Izod Impact Strength (notched) at 23°C | ISO 180 | kJ/m² | 4 |
| Charpy Impact Strength (notched) at 23°C | ISO 179 | kJ/m² | 4.5 |
| Hardness Rockwell - R-scale | ISO 2039-2 | | 98 |
| **Thermal properties** | | | |
| Melting Point | ISO 3146 | °C | 165 |
| Vicat Softening Point | ISO 306 | °C | |
| 50N-50°C per hour | | | 90 |
| 10N-50°C per hour | | | 153 |
| 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.

TOTALENERGIES ONE TECH BELGIUM
Zone Industrielle C
B-7181 Feluy
Belgium

Rev : December 21