TotalEnergies

Refining & Chemicals
Polymers

# Polypropylene PPH 4050

Technical data sheet
Polypropylene – Homopolymer
Produced in Europe

## Description

Polypropylene PPH 4050 is a homopolymer with a Melt Flow Index of 3.3 g/10 min.

Polypropylene PPH 4050 has been designed for the production of BOPP film with the tenter frame process. The product combines a good processability with excellent film properties. It is free of calcium stearate and suitable for metallizable films.

## Characteristics

| | Method | Unit | Typical Value |
|---|---|---|---|
| **Rheological properties** | | | |
| Melt Flow Index 230°C/2.16 kg | ISO 1133 | g/10 min | 3.3 |
| **Mechanical properties** | | | |
| Tensile Strength at Yield | ISO 527-2 | MPa | 33 |
| Elongation at Yield | ISO 527-2 | % | 10 |
| Tensile modulus | ISO 527-2 | MPa | 1450 |
| Flexural modulus | ISO 178 | MPa | 1350 |
| Izod Impact Strength (notched) at 23°C | ISO 180 | kJ/m² | 5 |
| Charpy Impact Strength (notched) at 23°C | ISO 179 | kJ/m² | 6 |
| Hardness Rockwell - R-scale | ISO 2039-2 | | 90 |
| **Thermal properties** | | | |
| Melting Point | ISO 3146 | °C | 160-165 |
| Vicat Softening Point | ISO 306 | °C | |
| 50N-50°C per hour | | | 85 |
| 10N-50°C per hour | | | 150 |
| 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

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