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Refining & Chemicals
Polymers

# Polypropylene PPC 11812

Technical data sheet
Polypropylene – Heterophasic Copolymer
Produced in Europe

## Description

Polypropylene PPC 11812 has been developed for high speed injection moulding of thin walled packaging containers requiring top level impact resistance at cold temperature (-20°C). It is characterized by a high Melt Flow Index of 50 g/10 min, and allows an optimization of the injection parameters as for example a reduction of the cycle time, while keeping properties even at cold temperature (impact).

## Characteristics

| | Method | Unit | Typical Value |
|---|---|---|---|
| **Rheological properties** | | | |
| Melt Flow Index 230°C/2.16 kg | ISO 1133 | g/10 min | 50 |
| **Mechanical properties** | | | |
| Tensile Strength at Yield | ISO 527-2 | MPa | 24 |
| Elongation at Yield | ISO 527-2 | % | 5 |
| Tensile modulus | ISO 527-2 | MPa | 1150 |
| Flexural modulus | ISO 178 | MPa | 1100 |
| Izod Impact Strength (notched) | ISO 180 | kJ/m² | |
| at 23°C | | | 13.5 |
| at -20°C | | | 6.5 |
| **Thermal properties** | | | |
| Melting Point | ISO 3146 | °C | 165 |
| Vicat Softening Point | ISO 306 | °C | |
| 50N-50°C per hour | | | 70 |
| 10N-50°C per hour | | | 140 |
| Heat Deflection Temperature | ISO 752 | °C | |
| 1.80 MPa - 120°C per hour | | | 48 |
| 0.45 MPa - 120°C per hour | | | 90 |
| **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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