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Refining & Chemicals
Polymers

# Polypropylene PPR 7227

Technical data sheet
Polypropylene – Random Copolymer
Produced in Europe

## Description

Polypropylene PPR 7227 is a high transparency random copolymer polypropylene specially developed for the injection moulding of caps and closures and articles with high transparency, excellent surface resistance and low stress whitening in hinged applications.

Polypropylene PPR 7227 distinguishes itself by excellent organoleptic properties and can be proposed for contact with taste sensitive liquids. Certificates for batch compliance are available.

## Characteristics

| | Method | Unit | Typical Value |
|---|---|---|---|
| **Rheological properties** | | | |
| Melt Flow Index 230°C/2.16 kg | ISO 1133 | g/10 min | 10 |
| **Mechanical properties** | | | |
| Tensile Strength at Yield | ISO 527-2 | MPa | 29 |
| Elongation at Yield | ISO 527-2 | % | 10 |
| Tensile modulus | ISO 527-2 | MPa | 1300 |
| Flexural modulus | ISO 178 | MPa | 1200 |
| Izod Impact Strength (notched) at 23°C | ISO 180 | kJ/m² | 5,5 |
| Charpy Impact Strength (notched) at 23°C | ISO 179 | kJ/m² | 7 |
| Hardness Rockwell - R-scale | ISO 2039-2 | | 86 |
| **Thermal properties** | | | |
| Melting Point | ISO 3146 | °C | 146 |
| Vicat Softening Point | ISO 306 | °C | |
| 50N-50°C per hour | | | 67 |
| 10N-50°C per hour | | | 130 |
| **Other physical properties** | | | |
| Density | ISO 1183 | g/cm³ | 0.902 |
| 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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