



**TotalEnergies**

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
<b>Rheological properties</b>			
Melt Flow Index 230°C/2.16 kg	ISO 1133	g/10 min	10
<b>Mechanical properties</b>			
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/m <sup>2</sup>	5,5
Charpy Impact Strength (notched) at 23°C	ISO 179	kJ/m <sup>2</sup>	7
Hardness Rockwell - R-scale	ISO 2039-2		86
<b>Thermal properties</b>			
Melting Point	ISO 3146	°C	146
Vicat Softening Point	ISO 306	°C	
50N-50°C per hour			67
10N-50°C per hour			130
<b>Other physical properties</b>			
Density	ISO 1183	g/cm <sup>3</sup>	0.902
Bulk Density	ISO 1183	g/cm <sup>3</sup>	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](http://www.polymers.totalenergies.com).

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