



**TotalEnergies**

Refining & Chemicals  
Polymers

## Description

Polypropylene PPR 3221 is a high clarity, high impact resistance random copolymer especially designed for blow molding applications (mono and multi-layers) for food and non-food packaging of sauces, detergents and soaps, cosmetics and for sheets extrusion.

## Characteristics

	Method	Unit	Typical Value
<b>Rheological properties</b>			
Melt Flow Index 230°C/2.16 kg	ISO 1133	g/10 min	1.8
<b>Mechanical properties</b>			
Elongation at Yield	ISO 527-2	%	<15
Flexural modulus	ISO 178	MPa	900
Izod Impact Strength (notched) at 23°C	ISO 180	kJ/m <sup>2</sup>	
at 23°C			22
at 0°C			3.6
Hardness Rockwell - R-scale	ISO 2039-2		82
<b>Thermal properties</b>			
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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