



**TotalEnergies**

Refining & Chemicals  
Polymers

## Polypropylene PPC 7810

Technical data sheet  
Polypropylene – Heterophasic Copolymer  
Produced in Europe

### Description

Polypropylene PPC 7810 is a very high impact heterophasic copolymer with a Melt Flow Index of 15 g/10 min.

Polypropylene PPC 7810 has been specially developed for high impact and heavy duty applications like automotive bumpers, crates and pallets.

### Characteristics

	Method	Unit	Typical Value
<b>Rheological properties</b>			
Melt Flow Index 230°C/2.16 kg	ISO 1133	g/10 min	15
<b>Mechanical properties</b>			
Tensile Strength at Yield	ISO 527-2	MPa	24
Elongation at Yield	ISO 527-2	%	6
Tensile modulus	ISO 527-2	MPa	1050
Flexural modulus	ISO 178	MPa	950
Izod Impact Strength (notched)	ISO 180	kJ/m <sup>2</sup>	
at 23°C			>50
at -20°C			8
Charpy Impact Strength (notched)	ISO 179	kJ/m <sup>2</sup>	
at 23°C			>50
at -20°C			8.5
Hardness Rockwell - R-scale	ISO 2039-2		78
<b>Thermal properties</b>			
Melting Point	ISO 3146	°C	165
Vicat Softening Point	ISO 306	°C	
50N-50°C per hour			65
10N-50°C per hour			135
Heat Deflection Temperature	ISO 752	°C	
1.80 MPa - 120°C per hour			50
0.45 MPa - 120°C per hour			92
<b>Other physical properties</b>			
Density	ISO 1183	g/cm <sup>3</sup>	0.905
Bulk Density	ISO 1183	g/cm <sup>3</sup>	0.525

Polypropylene

### 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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