



**TotalEnergies**

Refining & Chemicals  
Polymers

**Description**

Polypropylene PPH 9081 is a controlled-rheology homopolymer with a Melt Flow Index of 25 g/10 min.

Polypropylene PPH 9081 is characterized by a narrow molecular weight distribution and excellent flow properties, providing improved impact resistance and very low warpage for injection. It is particularly designed for the injection moulding of thin walled articles and has good hinge properties.

**Characteristics**

	Method	Unit	Typical Value
<b>Rheological properties</b>			
Melt Flow Index 230°C/2.16 kg	ISO 1133	g/10 min	25
<b>Mechanical properties</b>			
Tensile Strength at Yield	ISO 527-2	MPa	30
Elongation at Yield	ISO 527-2	%	10
Tensile modulus	ISO 527-2	MPa	1350
Flexural modulus	ISO 178	MPa	1250
Izod Impact Strength (notched) at 23°C	ISO 180	kJ/m <sup>2</sup>	3.5
Charpy Impact Strength (notched) at 23°C	ISO 179	kJ/m <sup>2</sup>	4
Hardness Rockwell - R-scale	ISO 2039-2		92
<b>Thermal properties</b>			
Melting Point	ISO 3146	°C	165
Vicat Softening Point	ISO 306	°C	
50N-50°C per hour			80
10N-50°C per hour			148
Heat Deflection Temperature	ISO 752	°C	
1.80 MPa - 120°C per hour			52
0.45 MPa - 120°C per hour			95
<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

**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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