

# TOTAL Polypropylene PPH 9081

Polypropylene Homopolymer

TOTAL Refining & Chemicals

## Message:

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.

| General Information                       |                                      |          |             |
|-------------------------------------------|--------------------------------------|----------|-------------|
| Features                                  | Controlled Rheology                  |          |             |
|                                           | Good Flow                            |          |             |
|                                           | Good Impact Resistance               |          |             |
|                                           | Low Warpage                          |          |             |
|                                           | Narrow Molecular Weight Distribution |          |             |
| Uses                                      | Thin-walled Parts                    |          |             |
| Agency Ratings                            | EC 1907/2006 (REACH)                 |          |             |
| RoHS Compliance                           | RoHS Compliant                       |          |             |
| Forms                                     | Pellets                              |          |             |
| Processing Method                         | Injection Molding                    |          |             |
| Physical                                  | Nominal Value                        | Unit     | Test Method |
| Density                                   | 0.905                                | g/cm³    | ISO 1183    |
| Apparent Density                          | 0.53                                 | g/cm³    | ISO 60      |
| Melt Mass-Flow Rate (MFR) (230°C/2.16 kg) | 25                                   | g/10 min | ISO 1133    |
| Hardness                                  | Nominal Value                        | Unit     | Test Method |
| Rockwell Hardness (R-Scale)               | 92                                   |          | ISO 2039-2  |
| Mechanical                                | Nominal Value                        | Unit     | Test Method |
| Tensile Modulus                           | 1350                                 | MPa      | ISO 527-2   |
| Tensile Stress (Yield)                    | 30.0                                 | MPa      | ISO 527-2   |
| Tensile Strain (Yield)                    | 10                                   | %        | ISO 527-2   |
| Flexural Modulus                          | 1250                                 | MPa      | ISO 178     |
| Impact                                    | Nominal Value                        | Unit     | Test Method |
| Charpy Notched Impact Strength (23°C)     | 4.0                                  | kJ/m²    | ISO 179     |
| Notched Izod Impact Strength (23°C)       | 3.5                                  | kJ/m²    | ISO 180     |
| Thermal                                   | Nominal Value                        | Unit     | Test Method |
| Heat Deflection Temperature               |                                      |          |             |
| 0.45 MPa, Unannealed                      | 95.0                                 | °C       | ISO 75-2/B  |
| 1.8 MPa, Unannealed                       | 52.0                                 | °C       | ISO 75-2/A  |
| Vicat Softening Temperature               |                                      |          |             |
| --                                        | 148                                  | °C       | ISO 306/A50 |

|                           |      |    |             |
|---------------------------|------|----|-------------|
| --                        | 80.0 | °C | ISO 306/B50 |
| Melting Temperature (DSC) | 165  | °C | ISO 3146    |

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