



**TotalEnergies**

Refining & Chemicals  
Polymers

### Polypropylene PPC 10642

Technical data sheet  
Polypropylene – Heterophasic Copolymer  
Produced in Europe

#### Description

Polypropylene PPC 10642 is a nucleated antistatic heterophasic copolymer with high Melt Flow Index of 44 g/10 min.  
Polypropylene PPC 10642 is characterized by high fluidity with good mechanical properties. It has been formulated for excellent antistatic properties.  
Polypropylene PPC 10642 has been developed for high speed injection moulding of pails and food packaging.  
We hereby confirm that we do not use peroxide in the manufacturing of the above-mentioned Product.

#### Characteristics

|                                  | Method     | Unit              | Typical Value |
|----------------------------------|------------|-------------------|---------------|
| <b>Rheological properties</b>    |            |                   |               |
| Melt Flow Index 230°C/2.16 kg    | ISO 1133   | g/10 min          | 44            |
| <b>Mechanical properties</b>     |            |                   |               |
| Tensile Strength at Yield        | ISO 527-2  | MPa               | 27            |
| Elongation at Yield              | ISO 527-2  | %                 | 4             |
| Tensile modulus                  | ISO 527-2  | MPa               | 1600          |
| Flexural modulus                 | ISO 178    | MPa               | 1500          |
| Izod Impact Strength (notched)   | ISO 180    | kJ/m <sup>2</sup> |               |
| at 23°C                          |            |                   | 7.5           |
| at -20°C                         |            |                   | 4             |
| Charpy Impact Strength (notched) | ISO 179    | kJ/m <sup>2</sup> |               |
| at 23°C                          |            |                   | 7             |
| at -20°C                         |            |                   | 4.5           |
| Hardness Rockwell - R-scale      | ISO 2039-2 |                   | 100           |
| <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        |            |                   | 57            |
| 0.45 MPa - 120°C per hour        |            |                   | 114           |
| <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).

Information contained in this publication is true and accurate at the time of publication and to the best of our knowledge. The nominal values stated herein are obtained using laboratory test specimens. These are typical values not to be construed as specification limits. Before using one of the products mentioned herein, customers and other users should take all care in determining the suitability of such product for the intended use. Unless specifically indicated, the products mentioned herein are not suitable for applications in the pharmaceutical or medical sector. The Companies within TotalEnergies Petrochemicals do not accept any liability whatsoever arising from the use of this information or the use, application or processing of any product described herein. No information contained in this publication can be considered as a suggestion to infringe patents. The Companies disclaim any liability that may be claimed for infringement or alleged infringement of patents.

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