





Lighter injection moulded packaging with PPC 11642, PPC 12642 and PPC 13812 polypropylene

PPC 11642, PPC 12642 and PPC 13812 polypropylene grades are used to manufacture tubs and pots for foodstuffs and industrial products.

5%

The Total Ecosolutions advantage

The properties of these grades enable the reduction in wall thickness of injected parts. This results in a 5% reduction in the weight of moulded parts, which results in material savings compared with the most widely used standard polypropylenes.



Environmental performance

The 5% reduction in material produces a corresponding reduction in energy consumption and greenhouse gas emissions. The use of 1000t of PPC 11642, PPC 12642 or PPC 13812 in this application averts the emission of around 280t of CO₂ equivalent, which corresponds to the average annual emissions of approximately 30 EU citizens*.

* Source: European Environment Agency, October 2010: greenhouse gas emissions in EU 27 for 2008 = 9.9 tons of CO_2 equivalent per capita.

Leveraging innovation to serve continuous improvement, the Total Ecosolutions program involves developing products and services that enable our customers to consume less natural resources and/or reduce their environmental impact.

For any question or to learn more about the Total Ecosolutions program and the products and services that have earned the label, go to: www.total.com/EN/total-ecosolutions



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Technical data sheet

Produced in Europe

This product is Total Ecosolutions.



Description

Polypropylene PPC 12642 is a nucleated antistatic heterophasic copolymer with high Melt Flow Index of 70 g/10 min and good mechanical properties.

Polypropylene PPC 12642 has been developed for high speed injection moulding of thin walled packaging containers.

For more information, clic on the logo

We hereby confirm that we do not use peroxide in the manufacturing of the above-mentioned Product.

Characteristics

| | Method | Unit | Typical Value |
|----------------------------------|------------|-------------------|------------------|
| Rheological properties | | | |
| Melt Flow Index 230°C/2.16 kg | ISO 1133 | g/10 min | 70 |
| Mechanical properties | | | |
| Tensile Strength at Yield | ISO 527-2 | MPa | 27 |
| Elongation at Yield | ISO 527-2 | % | 5 |
| Tensile modulus | ISO 527-2 | MPa | 1600 |
| Flexural modulus | ISO 178 | MPa | 1500 |
| Izod Impact Strength (notched) | ISO 180 | kJ/m² | |
| at 23°C | | | 6.5 |
| at -20°C | | | 4 |
| Charpy Impact Strength (notched) | ISO 179 | kJ/m² | |
| at 23°C | | | 6 |
| at -20°C | | | 4.5 |
| Hardness Rockwell - R-scale | ISO 2039-2 | | 100 |
| Thermal properties | | | |
| 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 | | | 55 |
| 0.45 MPa - 120°C per hour | | | 100 |
| Other physical properties | | | |
| Density | ISO 1183 | g/cm³ | 0.905 |
| Bulk Density | ISO 1183 | g/cm ³ | 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: http://www.totalpetrochemicals.com

An Injection Moulding troubleshooting guide is available upon request.

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