

# TOTAL Polypropylene PPC 6742

Polypropylene Impact Copolymer

TOTAL Refining & Chemicals

Message:

Polypropylene PPC 6742 is a high impact copolymer. It allows with a Melt Flow Index of 8 g/10 min and outstanding impact/rigidity balance to optimize the Injection Moulding of large articles (specifically crates and mechanically heavy loaded parts requiring long term creep resistance). It is characterized by good antistatic properties and high mechanical properties, particularly at cold temperature (impact).

| General Information                       |                                   |          |             |
|-------------------------------------------|-----------------------------------|----------|-------------|
| Features                                  | Antistatic                        |          |             |
|                                           | Good Creep Resistance             |          |             |
|                                           | High Impact Resistance            |          |             |
|                                           | Impact Copolymer                  |          |             |
|                                           | Low Temperature Impact Resistance |          |             |
| Uses                                      | Crates                            |          |             |
| 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) | 8.0                               | g/10 min | ISO 1133    |
| Mechanical                                | Nominal Value                     | Unit     | Test Method |
| Tensile Modulus                           | 1250                              | MPa      | ISO 527-2   |
| Tensile Stress (Yield)                    | 27.0                              | MPa      | ISO 527-2   |
| Tensile Strain (Yield)                    | 6.0                               | %        | ISO 527-2   |
| Flexural Modulus                          | 1200                              | MPa      | ISO 178     |
| Impact                                    | Nominal Value                     | Unit     | Test Method |
| Notched Izod Impact Strength              |                                   |          | ISO 180     |
| -20°C                                     | 7.0                               | kJ/m²    |             |
| 23°C                                      | 45                                | kJ/m²    |             |
| Thermal                                   | Nominal Value                     | Unit     | Test Method |
| Heat Deflection Temperature <sup>1</sup>  |                                   |          |             |
| 0.45 MPa, Unannealed                      | 90.0                              | °C       | ISO 75-2/B  |
| 1.8 MPa, Unannealed                       | 48.0                              | °C       | ISO 75-2/A  |
| Vicat Softening Temperature               |                                   |          |             |
| --                                        | 140                               | °C       | ISO 306/A50 |
| --                                        | 70.0                              | °C       | ISO 306/B50 |
| Melting Temperature (DSC)                 | 165                               | °C       | ISO 3146    |
| NOTE                                      |                                   |          |             |

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