

Technical Data Sheet

DuCare[®] T 50 M

Polypropylene Homopolymer

Description

DuCare T 50 M is a polypropylene homopolymer (produced with a phthalate-free catalyst), characterized by high flowability and a narrow to medium molecular weight distribution, and is formulated with a general purpose additivation package.

Applications

DuPure T 50 M is suitable for: general purpose injection moulding applications, compounding, packaging applications for the life science market, medical packaging and closures.

Quality, Environment and Safety Regulations

Material Safety Data Sheets and other regulatory documents are available on our web site <http://www.ducorchem.com>.

| Properties | | Method | Typical Value* | Unit |
|-----------------------------------|--------------------|-------------|----------------|-------------------|
| Physical | | | | |
| Melt Flow Rate | (230 °C / 2.16 kg) | ISO 1133 | 25 | g/10 min |
| Mechanical | | | | |
| Tensile Modulus | (1 mm/min) | ISO 527-2 | 1500 | MPa |
| Tensile Stress at Yield | (50 mm/min) | ISO 527-2 | 35 | MPa |
| Tensile Strain at Yield | (50 mm/min) | ISO 527-2 | 8 | % |
| Tensile Strain at Break | (50 mm/min) | ISO 527-2 | > 50 | % |
| Charpy Impact Strength, notched | (+ 23°C) | ISO 179/1eA | 3 | kJ/m ² |
| | (- 30°C) | ISO 179/1eA | 1.5 | kJ/m ² |
| Charpy Impact Strength, unnotched | (+ 23°C) | ISO 179/1eU | 110 | kJ/m ² |
| | (- 30°C) | ISO 179/1eU | 14 | kJ/m ² |
| Izod Impact Strength, notched | (+ 23°C) | ISO 180/1A | 3 | kJ/m ² |
| | (- 30°C) | ISO 180/1A | 1.3 | kJ/m ² |
| Thermal | | | | |
| Melting Point, DSC | | ISO 3146 | 163 | °C |
| Heat Deflection Temperature | (1.8 MPa) | ISO 75-2 | 55 | °C |
| Heat Deflection Temperature | (0.45 MPa) | ISO 75-2 | 85 | °C |
| Vicat Softening Temperature | (10 N) | ISO 306 | 154 | °C |
| Vicat Softening Temperature | (50 N) | ISO 306 | 90 | °C |
| Other Properties | | | | |
| Density | | ISO 1183 | 0.91 | g/cm ³ |

* Typical values; not to be construed as specifications

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