

Technical Data Sheet

DuClear[®] U 73 A

Polypropylene Homopolymer

Description

DuClear U 73 A is a clarified polypropylene homopolymer (produced with a phthalate-free catalyst). The product is nucleated and shows a very good flowability, stiffness, high transparency and anti-electrostatic properties.

Applications

DuClear U 73 A is suitable for: thin-walled packaging with high transparency.

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 | 48 | g/10 min |
| Mechanical | | | | |
| Tensile Modulus | (1 mm/min) | ISO 527-2 | 1900 | MPa |
| Tensile Stress at Yield | (50 mm/min) | ISO 527-2 | 39 | MPa |
| Tensile Strain at Yield | (50 mm/min) | ISO 527-2 | 7 | % |
| Tensile Strain at Break | (50 mm/min) | ISO 527-2 | > 20 | % |
| Shear Modulus | | ISO 6721-2 | 1000 | MPa |
| Charpy Impact Strength, notched | (+23 °C) | ISO 179/1eA | 2 | kJ/m ² |
| | (0 °C) | ISO 179/1eA | 1.5 | kJ/m ² |
| | (-30 °C) | ISO 179/1eA | 1 | kJ/m ² |
| Charpy Impact Strength, unnotched | (+23 °C) | ISO 179/1eU | 75 | kJ/m ² |
| | (-30 °C) | ISO 179/1eU | 11 | kJ/m ² |
| Izod Impact Strength, notched | (+23 °C) | ISO 180/1A | 2.2 | kJ/m ² |
| | (-30 °C) | ISO 180/1A | 1.1 | kJ/m ² |
| Ball Indentation Hardness (H 358/30) | | ISO 2039-1 | 90 | MPa |
| Thermal | | | | |
| Melting Point, DSC | | ISO 3146 | 163 | °C |
| Heat Deflection Temperature | (1.8 MPa) | ISO 75-2 | 60 | °C |
| Heat Deflection Temperature | (0.45 MPa) | ISO 75-2 | 100 | °C |
| Vicat Softening Temperature | (10 N) | ISO 306 | 155 | °C |
| Vicat Softening Temperature | (50 N) | ISO 306 | 98 | °C |
| Other Properties | | | | |
| Haze | | ASTM D1003 | 11 | % |
| Density | | ISO 1183 | 0.91 | g/cm ³ |

* Typical values; not to be construed as specifications

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