

Technical Data Sheet

DuCare[®] T 76 M

Polypropylene Homopolymer

Description

DuPure T 76 M is a nucleated polypropylene homopolymer (produced with a phthalate-free catalyst) with a narrow to medium molecular weight distribution. The product shows a good flowability and an excellent stiffness.

Applications

DuPure T 76 M is suitable for: injection moulding applications, compounding, packaging applications for the life science market, like PCR tips and medical packaging.

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	23	g/10 min
Mechanical				
Tensile Modulus	(1 mm/min)	ISO 527-2	2000	MPa
Tensile Stress at Yield	(50 mm/min)	ISO 527-2	40	MPa
Tensile Strain at Yield	(50 mm/min)	ISO 527-2	7	%
Tensile Strain at Break	(50 mm/min)	ISO 527-2	> 20	%
Charpy Impact Strength, notched	(+23 °C)	ISO 179/1eA	3.0	kJ/m ²
	(-30 °C)	ISO 179/1eA	1.7	kJ/m ²
Charpy Impact Strength, unnotched	(+23 °C)	ISO 179/1eU	91	kJ/m ²
	(-30 °C)	ISO 179/1eU	13	kJ/m ²
Izod Impact Strength, notched	(+23 °C)	ISO 180/1A	2.7	kJ/m ²
	(-30 °C)	ISO 180/1A	1.8	kJ/m ²
Thermal				
Melting Point, DSC		ISO 3146	165	°C
Heat Deflection Temperature	(1.8 MPa)	ISO 75-2	62	°C
Heat Deflection Temperature	(0.45 MPa)	ISO 75-2	105	°C
Vicat Softening Temperature	(10 N)	ISO 306	157	°C
Vicat Softening Temperature	(50 N)	ISO 306	100	°C
Other Properties				
Density		ISO 1183	0.91	g/cm ³

* Typical values; not to be construed as specifications

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