

Technical Data Sheet

DuCare[®] R 76 M

Polypropylene Homopolymer

Description

DuCare R 76 M is a nucleated polypropylene homopolymer (produced with a phthalate-free catalyst) with a narrow to medium molecular weight distribution. The product has been designed with a very high stiffness.

Applications

DuCare R 76 M is suitable for: injection moulding applications, compounding, packaging applications for the life science market and medical packaging etc..

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	12	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	3.3	kJ/m ²
	(-30 °C)	ISO 179/1eA	2.0	kJ/m ²
Charpy Impact Strength, unnotched	(+23 °C)	ISO 179/1eU	115	kJ/m ²
	(-30 °C)	ISO 179/1eU	16	kJ/m ²
Izod Impact Strength, notched	(+23 °C)	ISO 180/1A	2.8	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	65	°C
Heat Deflection Temperature	(0.45 MPa)	ISO 75-2	110	°C
Vicat Softening Temperature	(10 N)	ISO 306	158	°C
Vicat Softening Temperature	(50 N)	ISO 306	102	°C
Other Properties				
Density		ISO 1183	0.91	g/cm ³

* Typical values; not to be construed as specifications

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