

## Technical Data Sheet

# DuCare<sup>®</sup> E 50 M

## Polypropylene Homopolymer

### Description

**DuCare E 50 M** is a polypropylene homopolymer (produced with a phthalate-free catalyst), formulated with a general purpose additivition package.

### Applications

**DuCare E 50 M** is suitable for: extrusion, general purpose injection moulding, caps & closures and packaging applications for the life science market 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
<b>Physical</b>				
Melt Flow Rate	(230 °C / 2.16 kg)	ISO 1133	2.1	g/10 min
<b>Mechanical</b>				
Tensile Modulus	(1 mm/min)	ISO 527-2	1450	MPa
Tensile Stress at Yield	(50 mm/min)	ISO 527-2	33	MPa
Tensile Strain at Yield	(50 mm/min)	ISO 527-2	9	%
Tensile Strain at Break	(50 mm/min)	ISO 527-2	> 50	%
Charpy Impact Strength, notched	(+23 °C)	ISO 179/1eA	5.0	kJ/m <sup>2</sup>
	(-30 °C)	ISO 179/1eA	1.5	kJ/m <sup>2</sup>
Charpy Impact Strength, unnotched	(+23 °C)	ISO 179/1eU	No Break	kJ/m <sup>2</sup>
	(-30 °C)	ISO 179/1eU	17	kJ/m <sup>2</sup>
Izod Impact Strength, notched	(+23 °C)	ISO 180/1A	4.5	kJ/m <sup>2</sup>
	(-30 °C)	ISO 180/1A	1.4	kJ/m <sup>2</sup>
<b>Thermal</b>				
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
<b>Other Properties</b>				
Density		ISO 1183	0.91	g/cm <sup>3</sup>

\* Typical values; not to be construed as specifications

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