

Technical Data Sheet

DuCare[®] QR 50 M

Polypropylene Random Copolymer

Description

Ducare QR 50 M is a polypropylene random copolymer (produced with a phthalate-free catalyst) for extrusion applications (e.g. manufacturing highly transparent films with good weldability). The product does not contain any functional additives (like a slip or an anti-blocking agent).

Applications

DuCare QR 50 M is suitable for: (film-)extrusion, compounding and injection moulding, for applications in the life science market, like (constituent parts of) medical devices, such as cast films with broad sealing range, lamination films, water-quenched blown films, and 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	10	g/10 min
Mechanical				
Tensile Modulus	(1 mm/min)	ISO 527-2	1000	MPa
Tensile Stress at Yield	(50 mm/min)	ISO 527-2	27	MPa
Tensile Strain at Yield	(50 mm/min)	ISO 527-2	12	%
Tensile Strain at Break	(50 mm/min)	ISO 527-2	> 100	%
Charpy Impact Strength, notched	(+23 °C)	ISO 179/1eA	6.0	kJ/m ²
Charpy Impact Strength, unnotched	(+23 °C)	ISO 179/1eU	No Break	kJ/m ²
Izod Impact Strength, notched	(+23 °C)	ISO 180/1A	7.0	kJ/m ²
Thermal				
Melting Point, DSC		ISO 3146	145	°C
Other Properties				
Density		ISO 1183	0.91	g/cm ³

* Typical values; not to be construed as specifications

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