

DuClear[®] QU 74 A

Polypropylene Random Copolymer

Description

DuClear QU 74 A is a polypropylene random copolymer (produced with a phthalate-free catalyst), suitable for injection moulding applications. The product is clarified and contains an anti-electrostatic agent. DuClear QU 74 A features a very high transparency, a good balance of stiffness and impact strength, good organoleptics, and high melt flow.

Applications

DuClear QU 74 A is suitable for: high-speed injection moulding, thin-walled packaging, containers, caps- & closure systems, houseware.

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	37	g/10 min
Mechanical				
Tensile Modulus	(1 mm/min)	ISO 527-2	1050	MPa
Tensile Stress at Yield	(50 mm/min)	ISO 527-2	27	MPa
Tensile Strain at Yield	(50 mm/min)	ISO 527-2	13	%
Tensile Strain at Break	(50 mm/min)	ISO 527-2	> 50	%
Charpy Impact Strength, notched	(+23 °C)	ISO 179/1eA	6.5	kJ/m ²
	(0 °C)	ISO 179/1eA	2.2	kJ/m ²
Charpy Impact Strength, unnotched	(+23 °C)	ISO 179/1eU	NB	kJ/m ²
	(0 °C)	ISO 179/1eU	100	kJ/m ²
Izod Impact Strength, notched	(+23 °C)	ISO 180/1A	6.0	kJ/m ²
	(0 °C)	ISO 180/1A	2.1	kJ/m ²
Thermal				
Melting Point, DSC		ISO 3146	150	°C
Heat Deflection Temperature	(1.8 MPa)	ISO 75-2	48	°C
Heat Deflection Temperature	(0.45 MPa)	ISO 75-2	73	°C
Vicat Softening Temperature	(10 N)	ISO 306	129	°C
Vicat Softening Temperature	(50 N)	ISO 306	71	°C
Other Properties				
Haze	(1 mm plaque)	ASTM D1003	6	%
Density		ISO 1183	0.91	g/cm ³

* Typical values; not to be construed as specifications

Ducor Petrochemicals B.V., POB 1038, 3180AA Rozenburg ZH, the Netherlands

Web: <http://www.ducorchem.com/>

Email: sales@ducorchem.com

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