

Technical Data Sheet

DuPure[®] W 76

Polypropylene Homopolymer

Description

DuPure W 76 is a nucleated polypropylene homopolymer (produced with a phthalate-free catalyst) with a narrow/medium molecular weight distribution. The product shows a very high flowability and an excellent stiffness.

Applications

DuPure W 76 is suitable for: injection moulding (thin-walled packaging), compounding (high flow GF reinforced compounds).

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	75	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	2.1	kJ/m ²
	(-30 °C)	ISO 179/1eA	1.2	kJ/m ²
Charpy Impact Strength, unnotched	(+23 °C)	ISO 179/1eU	56	kJ/m ²
	(-30 °C)	ISO 179/1eU	10	kJ/m ²
Izod Impact Strength, notched	(+23 °C)	ISO 180/1A	2.0	kJ/m ²
	(-30 °C)	ISO 180/1A	1.0	kJ/m ²
Ball Indentation Hardness (H 358/30)		ISO 2039-1	90	MPa
Thermal				
Melting Point, DSC		ISO 3146	163	°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				
Haze	(1 mm plaque)	ASTM D1003	70	%
Density		ISO 1183	0.91	g/cm ³

* Typical values; not to be construed as specifications

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