

Technical Data Sheet

DuPure[®] SM 76 A

Polypropylene Heterophasic Copolymer

Description

DuPure SM 76 A is a heterophasic polypropylene copolymer (produced with a phthalate-free catalyst). The product is nucleated and contains an anti-electrostatic agent. It shows a medium fluidity combined with good impact properties.

Applications

DuPure SM 76 A is suitable for: cylindrical containers.

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	7.5	g/10 min
Mechanical				
Tensile Modulus	(1 mm/min)	ISO 527-2	1400	MPa
Tensile Stress at Yield	(50 mm/min)	ISO 527-2	28	MPa
Tensile Strain at Yield	(50 mm/min)	ISO 527-2	7	%
Tensile Strain at Break	(50 mm/min)	ISO 527-2	> 50	%
Shear Modulus		ISO 6721-2	700	MPa
Charpy Impact Strength, notched	(+23 °C)	ISO 179/1eA	9	kJ/m ²
	(0 °C)	ISO 179/1eA	4	kJ/m ²
	(-20 °C)	ISO 179/1eA	3.5	kJ/m ²
	(-30 °C)	ISO 179/1eA	2.5	kJ/m ²
Charpy Impact Strength, unnotched	(+23 °C)	ISO 179/1eU	No Break	kJ/m ²
	(0 °C)	ISO 179/1eU	120	kJ/m ²
	(-20 °C)	ISO 179/1eU	90	kJ/m ²
	(-30 °C)	ISO 179/1eU	80	kJ/m ²
Izod Impact Strength, notched	(+23 °C)	ISO 180/1A	7.5	kJ/m ²
	(0 °C)	ISO 180/1A	4.5	kJ/m ²
	(-20 °C)	ISO 180/1A	3.5	kJ/m ²
	(-30 °C)	ISO 180/1A	2.5	kJ/m ²
Ball Indentation Hardness (H 358/30)		ISO 2039-1	63	MPa
Thermal				
Melting Point, DSC		ISO 3146	163	°C
Heat Deflection Temperature	(1.8 MPa)	ISO 75-2	53	°C
Heat Deflection Temperature	(0.45 MPa)	ISO 75-2	90	°C
Vicat Softening Temperature	(10 N)	ISO 306	151	°C
Vicat Softening Temperature	(50 N)	ISO 306	68	°C
Other Properties				
Density		ISO 1183	0.91	g/cm ³

* Typical values; not to be construed as specifications

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