Technical Data Sheet

DuPure® TE 76

Polypropylene Heterophasic Copolymer

Description

DuPure TE 76 is a heterophasic polypropylene copolymer (produced with a phthalate-free catalyst). The product exhibits excellent impact strength at low temperatures, combined with good processability.

Applications

DuPure TE 76 is suitable for: crates and 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	2	g/10 min
Mechanical				
Tensile Modulus	(1 mm/min)	ISO 527-2	1100	MPa
Tensile Stress at Yield	(50 mm/min)	ISO 527-2	23	MPa
Tensile Strain at Yield	(50 mm/min)	ISO 527-2	8	%
Tensile Strain at Break	(50 mm/min)	ISO 527-2	> 50	%
Tensile Creep Modulus	1000 h, elongation ≤ 0.5 %	ISO 899-1	220	MPa
Shear Modulus		ISO 6721-2	530	MPa
Charpy Impact Strength, notched	(+23 °C)	ISO 179/1eA	60 P	kJ/m^2
	(0 °C)	ISO 179/1eA	12	kJ/m^2
	(−20 °C)	ISO 179/1eA	8	kJ/m^2
	(−30 °C)	ISO 179/1eA	7	kJ/m^2
Charpy Impact Strength, unnotched	(+23 °C)	ISO 179/1eU	No Break	kJ/m^2
	(0 °C)	ISO 179/1eU	No Break	kJ/m^2
	(−20 °C)	ISO 179/1eU	No Break	kJ/m^2
	(−30 °C)	ISO 179/1eU	No Break	kJ/m^2
Izod Impact Strength, notched	(+23 °C)	ISO 180/1A	50 P	kJ/m^2
	(0 °C)	ISO 180/1A	13	kJ/m^2
	(−20 °C)	ISO 180/1A	9	kJ/m^2
	(−30 °C)	ISO 180/1A	7	kJ/m^2
Ball Indentation Hardness (H 132/30)		ISO 2039-1	44	MPa
Thermal				
Melting Point, DSC		ISO 3146	163	°C
Heat Deflection Temperature	(1.8 MPa)	ISO 75-2	50	°C
Heat Deflection Temperature	(0.45 MPa)	ISO 75-2	80	°C
Vicat Softening Temperature	(10 N)	ISO 306	148	°C
Vicat Softening Temperature	(50 N)	ISO 306	60	°C
Other Properties				
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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