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ABN 20 101 181 793

ACN 101 181 793

- Sheet Plastics
- Cut to size & shape
- CNC Router cutting
- Fabrication
- Vacuum Forming
- Boat Screens & windows
- Signs & Displays
- Engineering Plastics
- Ecoscreen Plastic Lattice
- C/S Acrovyn
- Bld/Lic RL155051

updated:1/8/05

TEFLON TECHNICAL DATA AND INFORMATION SHEET

Teflon is a registered trademark of the Du Pont Company for its fluoropolymer resin.

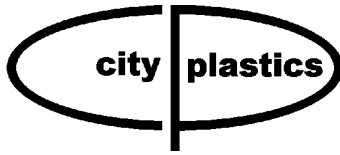
Teflon is available with a number of different fillers or reinforcing agents to modify the performance in use.

Teflon PTFE resins have a continuous service temperature of 260°C Higher temperatures can be sustained for short periods of time.

Teflon provides exceptional chemical, electrical, mechanical and thermal properties. It has one of the lowest dielectric constants and dissipation factors of any material. Teflon is unaffected by most chemicals in commercial use.

Teflon is available in, Sheet, Rod, Tube and Film

Common applications include food processing, electrical parts, insulators, medical components, seals, bearings and high heat situations.



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Typical properties of Teflon

ASTM test	Property	Value
PHYSICAL		
D792	Specific gravity	1.78
D1238	Melt flow index	5
D570	Water absorption, 24 hours, 3.0 mm thick (%)	0.03
°C	Maximum service temp	+160
°C	Minimum service temp	-40
MECHANICAL		
D638	Tensile strength at yield N/mm ²	54
D638	Elongation at yield(%)	3
D638	Tensile strength at break N/mm ²	46
D638	Elongation at break(%)	80
	Impact strength mj/mm ²	no break
D256	Notched impact strength mj/mm ²	22
	Ball indentation hardness N/mm ²	105
D790	Flexural strength N/mm ²	74
D638	Modulus of elasticity N/mm ²	2400
THERMAL		
C177	Thermal conductivity at 20°C	0.19
D696	Coefficient of thermal expansion K-1.10 ⁻⁴	1.3
D648	Deflection temperature °C	146
D1525	Vicat softening temperature °C	142
ELECTRICAL		
D257	Volume resistivity (ohm-cm)	10.14
D257	Surface resistivity ohm	10.13
D150	Dielectric constant At 1kHz	6.4
D150	Dissipation loss factor At 1kHz	0.17
FABRICATION		
	Welding temperature °C	230
	Forming temperature °C	180

These values are representative of those obtained under standard ASTM conditions and should not be used to design parts which function under different conditions.

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