

CDPTFE

A unique synthetic polymer alloy.

Product Description

Combining the properties of Fluoropolymer PTFE and a filler under strict production conditions, our specially formulated compound combines the properties of PTFE with a conductive / dissipative resistance range of up to $1 \times 10^6 \Omega$. Materials with higher resistance values are available to special order.

- ✘ Electrostatic conductive or dissipative.
- ✘ Resistance to most chemicals, solvents, solder debris.
- ✘ Surface withstands 270°C
- ✘ Non-stain: no carbon or graphite.
- ✘ Easily machined, drilled.
- ✘ Available in a range of sizes in Tape, Sheet, Plate, Rod & Tube.
- ✘ Can be bonded to other surfaces after special treatment
- ✘ Tough, resilient with good impact strength.

Applications

- ✘ Non-metal parts that need to be either “dissipative” or “conductive” with “antistatic” properties.
- ✘ Assemblies that require continuity between separate parts and / or to “ground” that cannot be “metal”, e.g. jigs, fixtures, bearings, etc.
- ✘ Containers, racks, supports, etc.
- ✘ Machined parts or blanks

Physical Properties

Colour	Grey Black	
Tensile strength	20.6	MPa
Elongation	280	%
Compressive Creep D-621 6.9MPa	1.6	%
Total Deformation D-621 6.9MPa	5.5	%
Compression set D-621 6.9MPa	0.8	%
Hardness	60	Shore D
Friction Dynamic	0.28	
Wear factor	1×10^{-5}	mm/km kgf/cm ²
Thermal exp	25-100C MD	15
	CD	5.6
	25-250C MD	22.5
	CD	7.3
Operating Temperature (max)	270	°C
Short term Temperature (max)	320	°C
Short term point contact (max) Temperature (i.e. soldering)	350	°C

2803V2

Standard Formats & Sizes

Tape	< 300mm wide, 0.5 to 3mm thick
Sheet / Plate	3-35mm thick
Rod	< 50mm dia
Tube	36 to 639mm* outside Ø

*Length varies for each size depending on tooling

These suggestions and data are based on information, which we believe to be accurate and reliable. They are given in good faith, but without guarantee, as the conditions and methods are beyond our control. We make no warranty that the goods will be suitable for a particular purpose or end-use for which the purchaser may use them. The purchaser accepts all risk and responsibility for consequences arising from the end use of the goods. It is the purchaser's responsibility to determine fitness for use and furthermore, materials should be regularly checked for relevant "ESD" properties.