PTFE (PolyTetraFluoroEthylene)

Physical Property	ASTM Test Method	Units	Value
Tensile strength 23°C	D638	MPa	24.82
		psi	3100
Tensile strength -40°C	D638	MPa	~
		psi	~
Elongation at 23°C	D638	%	~
Elongation at break	D638	%	500
Hardness	D785	Shore D	65
		Rockwell R	~
Flexural strength	D790	MPa	~
		psi	~
Deformation under load 140Kgf/cm² at 23°C for 24 hours	D621	%	14/28
Charpy impact strength at 23°C	D256	J/M	~
		ftlbs/inch	~
Charpy impact strength at -40°C	D256	J/M	~
		ftlbs/inch	~
Modulus of elasticity	D638	MPa	637
		psi	92451
Compressive strength	D695	MPa	~
		psi	~
Compressive yield strength	D695	MPa	~
		psi	~
Linear thermal expansion coefficient 30-100°C	E831	mm/mm/°C	1.2×10^{-4}
Melt point	D3418	°C	327
Heat distortion temperature °C	D648	264 psi	49
		66 psi	132
Service temperature (short term)	D570	°C	300
Service temperature (long term)	D570	°C	200
Dielectric strength	D149	Kv/mm	>24
Specific gravity	D792	g/cm³	2.3
Water absorption 24 hrs	D570	%	0.01
Water absorption saturation	D570	%	~
Flammability	UL 94	Burn rate	VO

1. The test figures stated are typical values and their aim is to assist the specifier in material selection. They are not intended to represent exact specifications.
2. ~denotes no data available at the time of publication. Please contact Devol for further information.
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