

Adtech Technical Data — PVDF

	Properties	DIN or ASTM Standard	Unit	PVDF
Physical	Specific Gravity	53479	g/cc	1.78
	Maximum Working Temperature		°C	140
	Flame Rating		UL-94	94 V-O
	Water Absorption	53495	%	0.02
Mechanical	Ultimate tensile strength at 23°C	53455		35-45
	Ultimate tensile strength at 150°C		Mpa	
	Ultimate tensile strength at 250°C			
	Yield point at 23°C	53455	N/mm ²	56
	Elongation at break, at 23°C	53455	%	22
	Modulus of elasticity in tension at 23°C	53457	N/mm ²	2000
	Maximum bending stress at 23°C	53452	Mpa	50
	Flexural Modulus	53457	N/mm ²	1950
	Ball Hardness 132-60	53456	N/mm ²	120
	Rockwell Hardness R	ASTM-D-785		
	Shore Hardness D	53505		78
	Coefficient of friction (dry with steel)			
Thermal	Melting temperature	ASTM 2116	°C	178
	Heat deflection temperature @ 18.5 Kp/sq.cm	53461	°C	
	Heat deflection temperature @ 4.6 Kp/sq.cm	ISO R 75	°C	
	Coefficient of expansion		1/K.10 ⁻⁵	13
	Thermal conductivity at 23°C	52612	W/K.m	0.24
	Specific heat at 23°C		Kj/Kg.K	1
	Oxygen index		%	>40
Electrical	Relative permittivity at 10 (3) Hz	53483		
	Relative permittivity at 10 (6) Hz			
	Surface resistivity	ICE 93+167	Ohms	>10 (13)
	Arc resistance	ASTM 495	sec	>50
	Dielectric strength	53481	KV/mm	30-60

IMPORTANT NOTE: The above data is intended as a guide and is taken from resin manufacturers data. Adtech cannot take responsibility for the accuracy of the data.

Customers must evaluate the material under the relevant conditions if the properties are critical to their applications.