



PFA Technical Properties

	Properties	DIN or ASTM Standard	Unit	PFA
Physical	Specific Gravity	53479	g/cc	2.12-2.17
	Maximum Working Temperature		°C	260
	Flame Rating		UL-94	94 V-0
	Water Absorption	53495	%	V0.03
Mechanical	Ultimate tensile strength at 23°C	53455		27-32
	Ultimate tensile strength at 150°C		Mpa	15-21
	Ultimate tensile strength at 250°C			14-15
	Yield point as 23°C	53455	N/mm ²	14
	Elongation at break , at 23°C	53455	%	300
	Modulus of elasticity in tension at 23°C	53457	N/mm ²	650
	Maximum bending stress at 23°	53452	Mpa	15
	Flexural Modulus	53457	N/mm ²	650-700
	Ball Hardness 132-60	53456	N/mm ²	25-30
	Rockwell Hardness R	ASTM-D-785		
	Shore Hardness D	53505		60-65
	Coefficient of friction (dry with steel)			0.20-0.30
	Thermal	Melting temperature	ASTM 2116	°C
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	10-16
Thermal conductivity at 23°C		52612	W/K.m	0.22
Specific heat at 23°C			Kj/Kg.K	1.09
Oxygen index			%	>95
Electrical	Relative permittivity at 10 (3) Hz	53483		2.06-2.1
	Relative permittivity at 10 (6) Hz			2.06-2.1
	Surface resistivity	ICE 93+167	Ohms	10 (17)
	Arc resistance	ASTM 495	sec	>210
	Dielectric strength	53481	KV/mm	50-80

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.

For technical assistance, contact our customer service team:

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