

	Properties	DIN or ASTM Standard	Unit	ETFE
Physical	Specific Gravity	53479	g/cc	1.71-1.78
	Maximum Working Temperature		°C	150
	Flame Rating		UL-94	94 V-O
	Water Absorption	53495	%	<0.1
Mechanical	Ultimate tensile strength at 23°C	53455		36-48
	Ultimate tensile strength at 150°C		Mpa	8-12
	Ultimate tensile strength at 250°C			n.a.
	Yield point as 23°C	53455	N/mm ²	24
	Elongation at break , at 23°C	53455	%	200-500
	Modulus of elasticity in tension at 23°C	53457	N/mm ²	500-1200
	Maximum bending stress at 23°	53452	Mpa	25-30
	Flexural Modulus	53457	N/mm ²	1000-1500
	Ball Hardness 132-60	53456	N/mm ²	34-40
	Rockwell Hardness R	ASTM-D-785		
	Shore Hardness D	53505		63-75
	Coefficient of friction (dry with steel)			0.30-0.50
Thermal	Melting temperature	ASTM 2116	°C	265-275
	Heat deflection temperature @ 18.5 Kp/sq.cm	53461	°C	71-74
	Heat deflection temperature @ 4.6 Kp/sq.cm	ISO R 75	°C	104
	Coefficient of expansion		1/K.10-5	8-12
	Thermal conductivity at 23°C	52612	W/K.m	0.23
	Specific heat at 23°C		Kj/Kg.K	1.95
	Oxygen index		%	>30
Electrical	Relative permittivity at 10 (3) Hz	53483		2.6
	Relative permittivity at 10 (6) Hz			2.6
	Surface resistivity	ICE 93+167	Ohms	10 (14)
	Arc resistance	ASTM 495	sec	>75
	Dielectric strength	53481	KV/mm	60-90

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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