

Eternal Materials

Fiber Reinforced Thermoplastic Composites

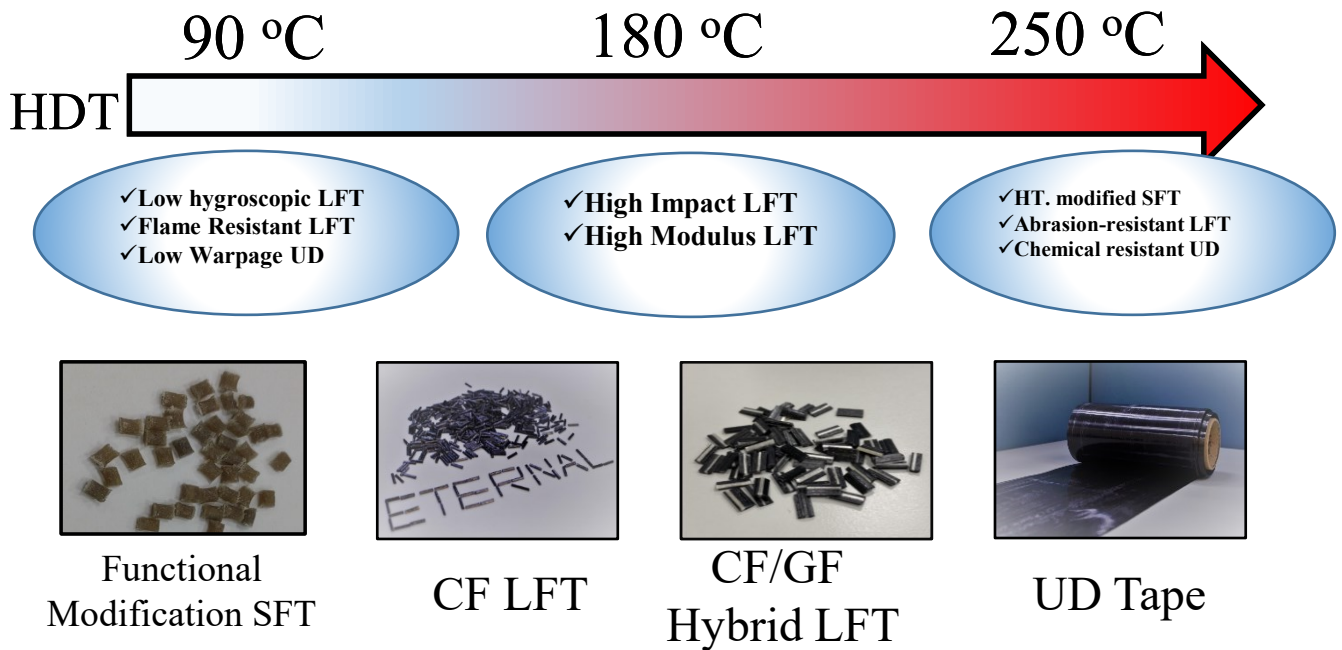
■ Introduction :

Eternal ETERPLAST™

thermoplastic composites can design thermoplastic resin formulas and match different forms of fiber materials according to customer needs, optimize customer needs, and provide customers with the best green material solutions.



ETERPLAST™ Series Products



■ Performance :

1. Excellent mechanical properties
2. Low hygroscopicity
3. High dimensional stability and low warpage
4. Can be bonded with structural adhesives

■ Applications :

1. High-end sporting goods
2. Lightweight Structural Materials
3. High-temperature wear-resistant industrial products
4. Transportation vehicle



長興材料
ETERNAL MATERIALS

Elements of Infinite Possibilities

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■ Products :

Model	Polymer Type	Fiber content (w/w)	Tensile strength (MPa)	Flexural strength (MPa)	Flexural modulus (GPa)	Impact strength (KJ/m ²)	HDT (°C)	FR (UL94)	Specific Gravity
SFT									
TP998C-S70	PAEK (HT&Wear-Resistant)	CF 30%	196	305	18.1	4.1	>300	V0	1.40
TP998G-S70	PAEK (HT&Wear-Resistant)	GF 30%	155	238	9.4	3.9	>300	V0	1.50
LFT									
TP032C-L72	TP-Epoxy (Low Hygroscopic)	CF 30%	185	285	21	17.5	97	HB	1.34
TP032H-L62	TP-Epoxy (Low Hygroscopic)	CF 25%	175	285	23.2	16.7	97	HB	1.46
TP155C-L62	PA-12 (Lightweight & Flexible)	CF 40%	226	372	20.4	71.2	177	HB	1.2
TP165C-L52	PA-66 (High -Modulus)	CF 50%	280	520	36	25	235	HB	1.4
TP168C-L62	PA-6 (High Impact)	CF 40%	270	470	26.7	38	225	HB	1.32
TP168H-L62	PA-6 (High Impact)	CF 25%	245	400	21	40.5	225	HB	1.39
TP179C-L622	Aromatic PA (High Strength)	CF 40%	340	580	33	50	270	HB	1.32
TP189C-L622	PA-9T (High -Modulus)	CF 40%	320	550	36	40	295	HB	1.33
TP878C-L62	m-PPS (Flame Resistant)	CF 40%	260	390	32.5	28	275	V0	1.35
TP998C-L62	PAEK (HT&Wear-Resistant)	CF 45%	265	430	33	25.6	>300	V0	1.44
TPUD									
TP032C-U52	TP-Epoxy (Low Hygroscopic)	CF 55%	1380	700	62	165	97	HB	1.46
TP998C-U42	PAEK (HT&Wear-Resistant)	CF 64%	2850	1800	130	293	>300	V0	1.52

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