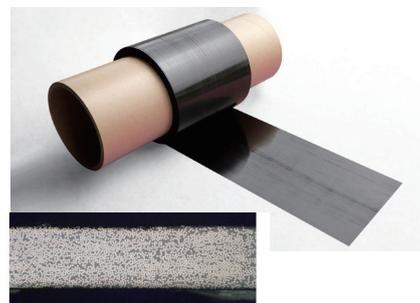


# Thermoplastic carbon fiber composite prepreg

## Kyron™ ULTRA

### Kyron™ ULTRA Prepreg

- Unidirectional Carbon Fiber Reinforced Thermoplastic Prepreg with super engineering plastic
- High mechanical properties and heat resistance materials
- High-quality prepreg materials with less voids
- The thinness of prepreg achieves better flexibility for making laminates.



Microscopic cross-section

Product code		TR K71F145SH	TR K71F072SH	TR K42F145SH	TR K72F145SH	USPK72W150SH
Specifications	Carbon fiber type	PAN CF	PAN CF	PAN CF	PAN CF	Pitch CF
	Matrix resin	PEI	PEI	PEEK	PEI with improved moldability	PEI with improved moldability
Reinforcement type		UD	UD	UD	UD	UD
Product specifications	unit					
Fiber Areal Weight FAW	g/m <sup>2</sup>	145	72	145	145	150
Resin content	wt%	32	32	32	32	29
Fiber volume content	Vol%	60	60	60	60	60
Nominal thickness	mm	0.13	0.07	0.13	0.13	0.12
Density	g/cc	1.60	1.60	1.61	1.60	1.78
MP of matrix resin	°C	—	—	343	—	—
Tg, DMA-E' onset	°C	215	215	145	205	205
Tg, DMA-tanδ	°C	225	225	165	215	215
Molding temperature	°C	320-360	320-360	380-400	280-320	280-320

### Kyron™ ULTRA L shaped bracket

- L-shaped molded parts made of Kyron™ ULTRA prepreg
- Contributing to parts weight reduction
- For customers' request, it is available to modify thickness / laminate configuration as options.

Product name	Kyron™ ULTRA L-shaped bracket
Product code	KU TR K71 L-AD/BA-50
Laminate configuration	[0/90] <sub>4s</sub>

