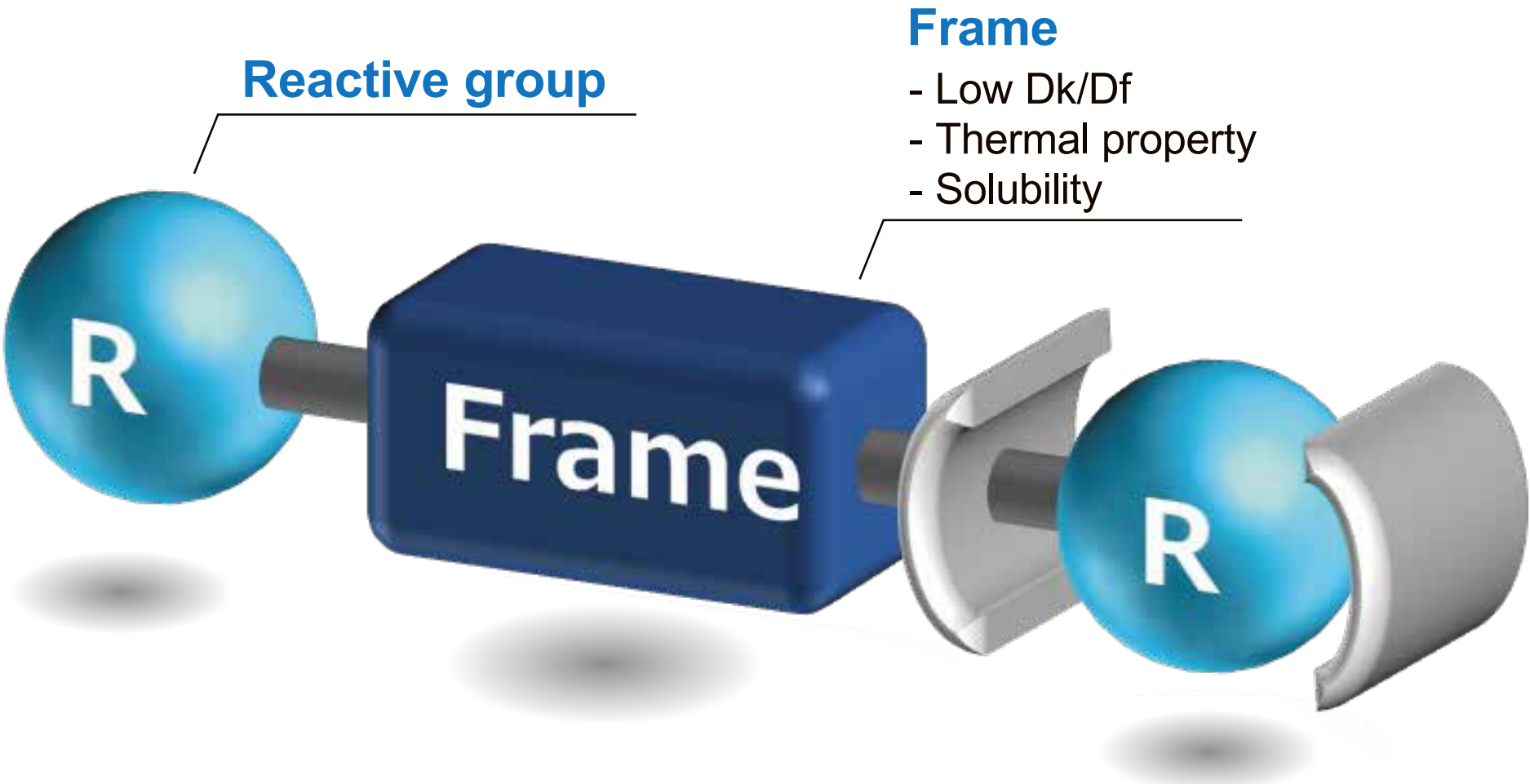


PJ series

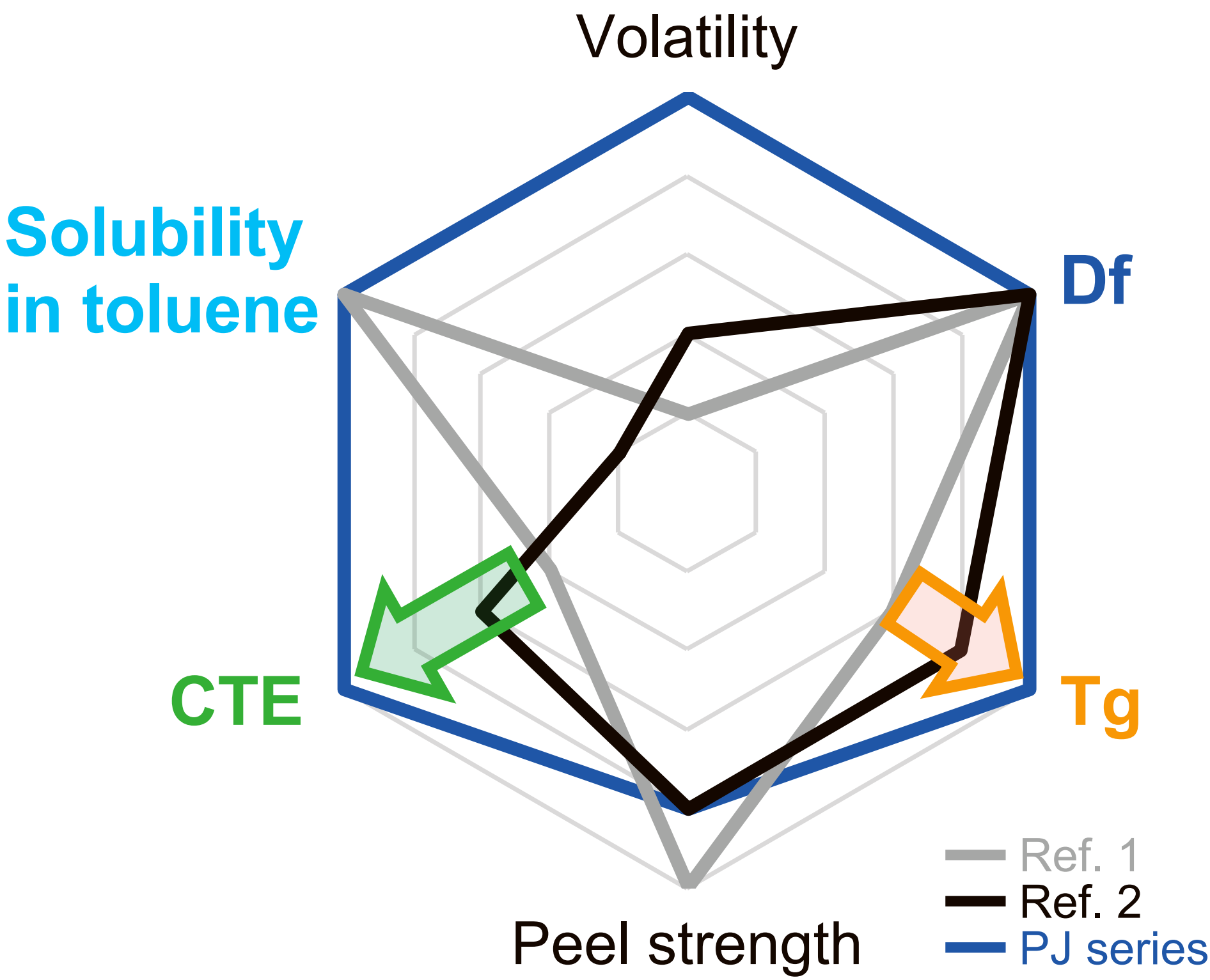
Low CTE Thermosetting Cross Linker

Design Concept



- Low CTE
- High Tg
- Low Dk/Df
- High solubility

Characteristic image



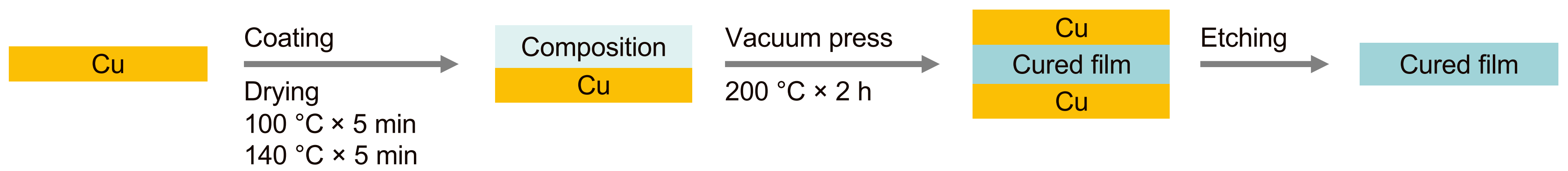
Products list

			Ref CG-7003	PJ0007	PJ0004	PJ0006
Feature			Low Df polymer	Low CTE High Tg	Low CTE High Solubility	Low CTE Low Df High Solubility
Product	Structure	Frame	-	Type-1	Type-2	Type-3
		R	-	Radical-curable	Radical-curable	Radical-curable
	Non-volatile (%)		62	30	62	62
	Solvent (% , Toluene)		38	70	38	38
	Viscosity (mPa s@25 °C)		>500	<5	10-30	<5
	Td ¹ (°C) Dried sample/uncured		-	352	350	148
Properties*	Dk @10 GHz		2.6	2.6	2.6	2.6
	Df @10 GHz		0.0011	0.0012	0.0012	0.0011
	Tg (°C, DMA)		172	195	190	180
	Total CTE [% , Δ(40-260 °C)]		5	3	4	3

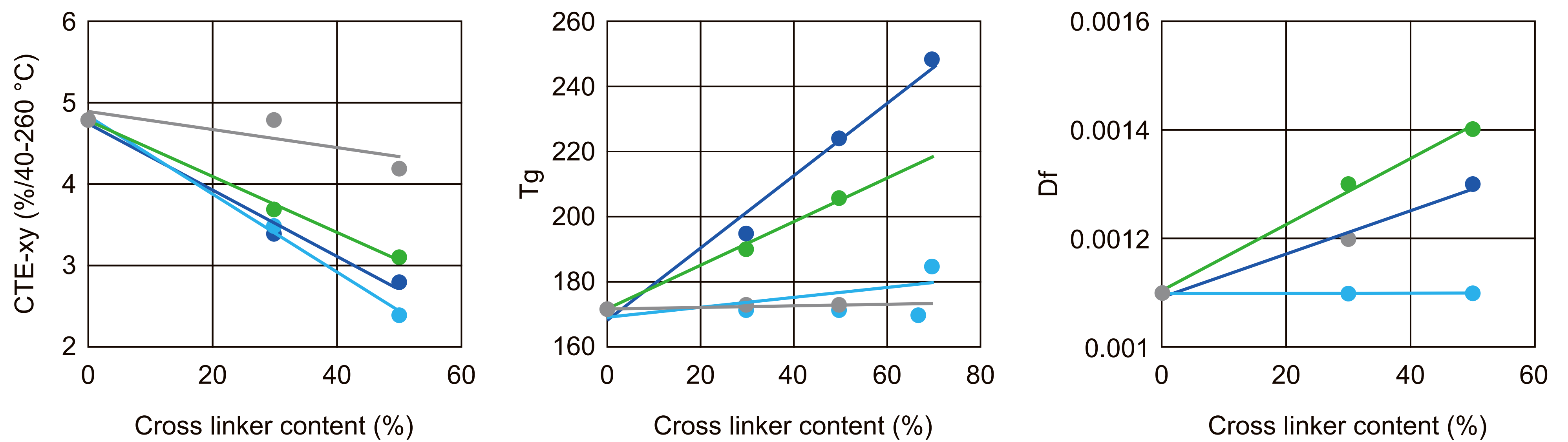
*Composition : CG-7003/Cross-linker/Initiator =70/30/0.5 wt (dry), Curing Condition: 200 °C x 2 h, under N₂.

PJ series Low CTE Cross linker

Evaluation as film

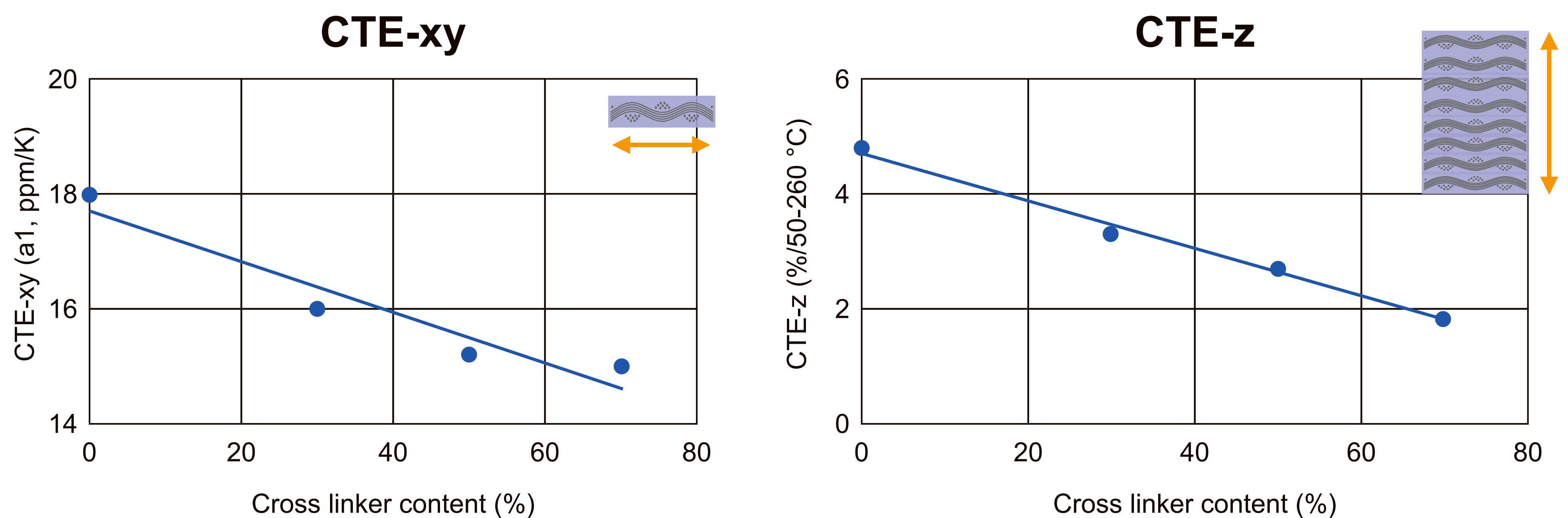
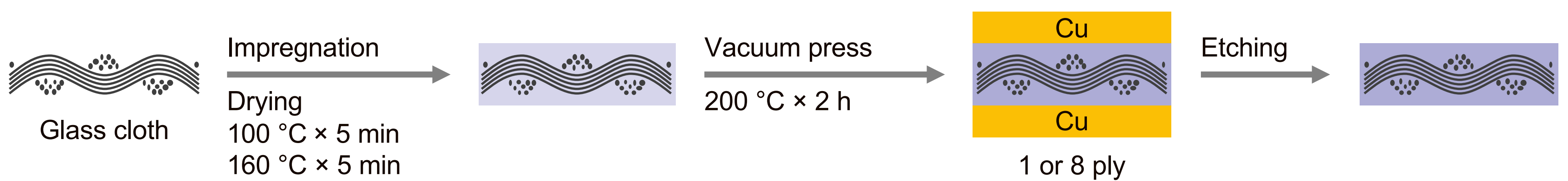


●PJ0007, ●PJ0004, ●PJ0006, ●Ref-1



Composition : Cross-linker/CG-7003/Initiator, Cross-linker+CG-7003=100, Initiator=0.5 phr

Evaluation as CCL



Composition : PJ0007/CG-7003/Initiator, PJ0007+CG-7003=100, Silica=60 phr, Initiator=0.5 phr