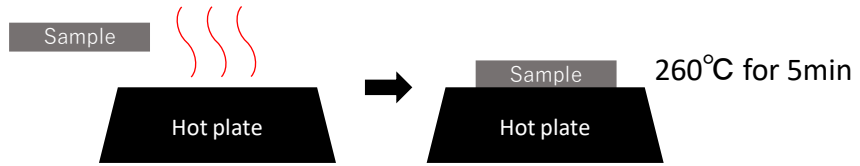
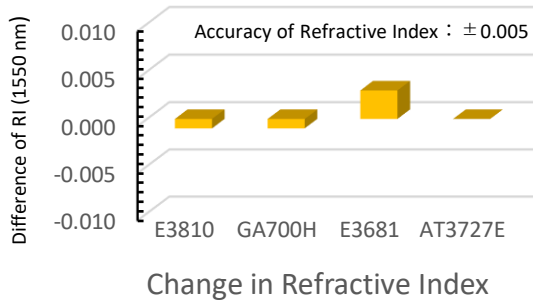
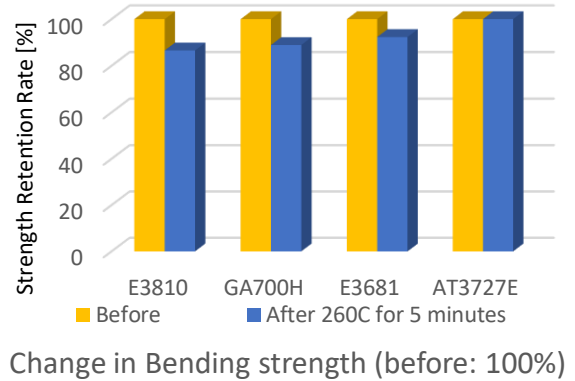
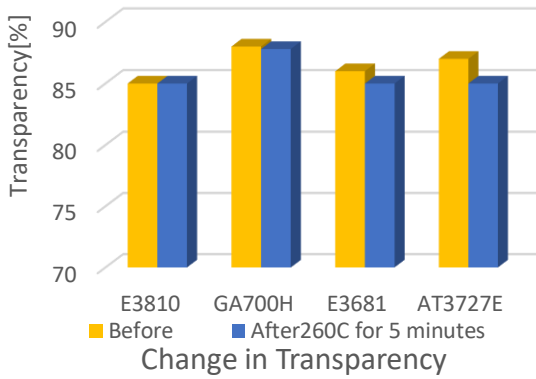


Optical Adhesives that withstand a high temperature

◆ Testing Method



◆ Results



Properties

Not guaranteed values

Product Number			In optical path						Fiber fixation	
			E3810		GA700H		E3681		AT3727E	
Substance Type			epoxy		epoxy		epoxy		epoxy	
Viscosity	25°C	mPa·s	100		280		400		400	
	Curing Conditions	Intensity	10		30		10		10	
		Time	10 min		10		10		10	
	Post bake	-		80°C/1h		80°C/1h		100°C/1h		
260°C for 5 minutes Process			Before	After	Before	After	Before	After	Before	After
Transparency(1550nm)	Thickness 1mm	%	85	85	88	88	86	85	87	85
	Bending Bond Strength(3 points)	kgf/cm ²	18	15	36	32	26	24	34	34
Refractive Index, after curing	1550nm	-	1.427	1.426	1.447	1.446	1.545	1.548	1.552	1.552
Tg	tan δ _{max}	°C	103	103	145	147	143	147	107	112
Hardness	25°C	Shore D	78	65	80	82	85	86	83	83
Thermal expansion Coefficient	25-100°C	ppm/°C	110	102	81	68	60	54	134	115
Weight loss at 260°C before re-flow	TG curve by TG-DTA	%	2.9	-	1.8	-	1.2	-	0.2	-
5% weight loss before re-flow	TG curve by TG-DTA	°C	292	-	302	-	366	-	313	-
Curing shrinkage		%	5	-	4	-	4	-	4	-