

Y/FA

Standard Soft Au Bonding Wire

軟質系Auボンディングワイヤ



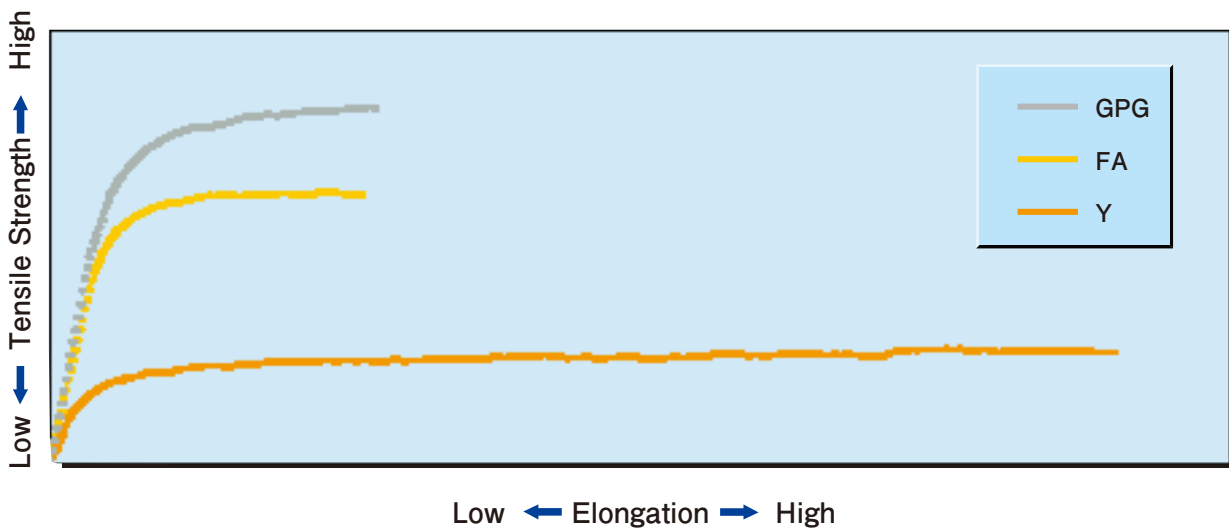
Characteristics

- **Y Type**
Good performance under high thermal stress environment.
- **FA Type**
Soft touch on bond pads.

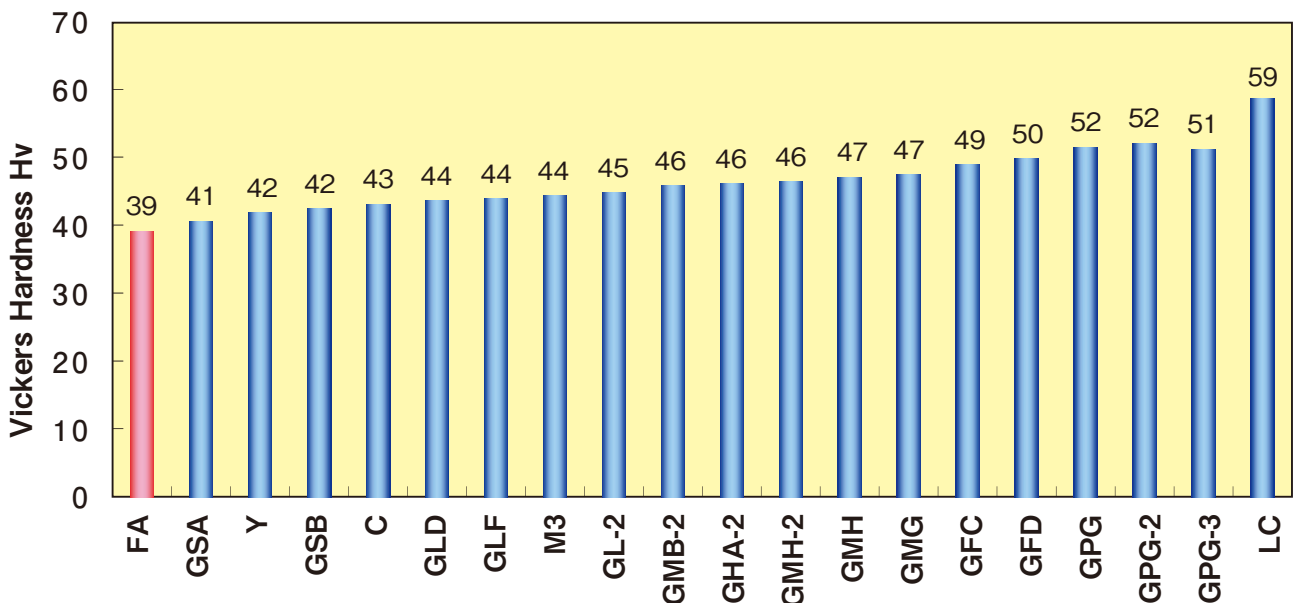
特 徴

- **Yタイプ**
LEDなど高い熱応力の環境下で優れた性能を示す。
- **FAタイプ**
チップダメージの抑制に効果がある。

Mechanical Property at 250°C



FAB Vickers Hardness



Test Load : 10gf, Test Speed : 10μm/sec, Hold Time : 10sec

Y Data Sheet
General Properties

Wire Diameter (um)	15	18	20	23	25	28	30	32	35	38
Tolerance (um)	+/- 1.0									
Weight (mg/200mm)	-	0.877-1.096	1.096-1.338	1.469-1.748	1.748-2.052	2.212-2.552	2.552-2.916	2.916-3.305	3.508-3.933	4.155-4.616
Breaking Load (gf)	Room Temp.									
Elongation (%)	-	2.0 - 5.0		2.0 - 6.0			2.0 - 7.0		2.0 - 8.0	

Physical Property

Hardness (HV)	Free Air Ball	30 - 50									
	HAZ	40 - 65									
	Wire	55 - 75									
Density (g/cm ³)		19.32									
Resistivity (uΩ cm) @ 20°C		2.3									
Fusing Current (A, Length=3mm,10sec)		-	0.4	0.5	0.7	0.8	1.1	1.2	1.4	1.7	2.0
Electrical resistance (Ω, Length 10mm, Room Temp.)		-	0.81 - 1.01	0.66 - 0.81	0.51 - 0.61	0.43 - 0.51	0.35 - 0.40	0.30 - 0.35	0.27 - 0.30	0.23 - 0.25	0.19 - 0.21
Thermal Conductivity @ 20°C (W/m/K)		315.5									
Linear Expansion Coefficient (0-100°C) (ppm/K)		14.1									
Elastic Modulus (GPa)		50 - 70									
Melting Point (°C)		1,063									

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FA Data Sheet
General Properties

Wire Diameter (um)	15	18	20	23	25	28	30	32	35	38	
Tolerance (um)	+/- 1.0										
Weight (mg/200mm)	0.595-0.777	0.877-1.096	1.096-1.338	1.469-1.748	1.748-2.052	2.212-2.552	2.552-2.916	2.916-3.305	3.508-3.933	4.155-4.616	
Breaking Load (gf)	Room Temp.										
Elongation (%)	2.8 - 4.9	4.0 - 7.0	5.0 - 8.7	6.5 - 11.5	7.7 - 13.5	9.7 - 17.0	11.1 - 19.5	12.7 - 22.2	15.2 - 26.5	17.9 - 31.3	
		1.0 - 5.0	2.0 - 6.0			2.0 - 7.0		2.0 - 9.0	3.0 - 9.0		4.0 - 12.0

Physical Property

Hardness (HV)	Free Air Ball	30 - 50									
	HAZ	40 - 70									
	Wire	60 - 80									
Density (g/cm ³)		19.32									
Resistivity (uΩ cm) @ 20°C		2.3									
Fusing Current (A, Length=3mm,10sec)		0.3	0.4	0.5	0.7	0.8	1.1	1.2	1.4	1.7	2.0
Electrical resistance (Ω, Length 10mm, Room Temp.)		1.14 - 1.49	0.81 - 1.01	0.66 - 0.81	0.51 - 0.61	0.43 - 0.51	0.35 - 0.40	0.30 - 0.35	0.27 - 0.30	0.23 - 0.25	0.19 - 0.21
Thermal Conductivity @ 20°C (W/m/K)		315.5									
Linear Expansion Coefficient (0-100°C) (ppm/K)		14.1									
Elastic Modulus (GPa)		60 - 80									
Melting Point (°C)		1,063									

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