



Tel/Fax: (+98) 711 227 2688
<http://www.pishrokhotoot.s5.com>
No.12-Bagh Safa building-Bagh
Safa Lane-Azadi Blvd-Shiraz-Iran

德邦®
Darbond

Underfill Adhesives



6513 Underfill Adhesives	One component
6518 Underfill Adhesive	One component



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6513 Underfill Adhesives

- One component, epoxy adhesive.
- General purpose, repairable.
- Good fluidity.
- Can fast pass the gap of BGS or CSP.
- Used for protection of assembled CSP, BGA, uBGA, such as mobile phone and portable computer.

Package: 30ml/EFD tube Item No. 651302
250ml/bottle Item No. 651305





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6518 Underfill Adhesives

- One component, epoxy adhesive.
- Fast cures at 120°C,
- repairable.
- Good fluidity.
- Can fast pass the gap under 25µm
- Used for protection of assembled CSP, BGA, uBGA, such as mobile phone and portable computer.

Package: 30ml/EFD tube Item No. 651802
250ml/bottle Item No. 651805





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PROPERTIES CHART

Product No.	Uncured					Cured					
	Color	Specific Gravity GB/T13354-1992 g/cm ³	Viscosity GB/T2794-1995 mPa.s	Rate of Flow (50°C,0.25mm gap)		Hardness GB/T2411-1980 Shore D	Shear Strength GB/T7124-1986 MPa	Glass Transition Temperature ASTM E1545 °C	Elongation GB/T1040.1-1992 %	Thermal Expansion Coefficient GB/T1036.1-1989 ppm/°C	Thermal Conductivity ASTM E1530 W/m °C
				Flow Space mm	Flow Time sec						
6513	Light yellow	1.17	3000	10	25	62	5	40	3.8	65	0.19
6518	Black	1.17	2000	10*	35*	83	5	60	2.7	68	0.21

Continued

Product No.	Cured					Recommended Curing Condition				Pot Life (25°C) day
	Volume Resistivity GB/T1410-2006 Ω.cm	Water Absorption (24h,25°C) GB/T1034-1998 %	Ion Content			Curing Condition 1		Curing Condition 2		
			Cl ⁻ ppm	K ⁺ ppm	Na ⁺ ppm	Temperature °C	Time min	Temperature °C	Time min	
6513	6.1×10 ¹⁵	0.26	<150	<10	<10	120	10	150	5	7
6518	6.3×10 ¹⁵	0.23	<120	<10	<10	120	3	150	1	7

Note: *25°C, 0.25mm gap.