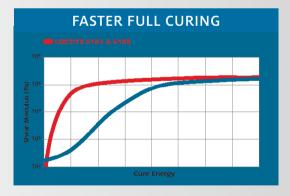
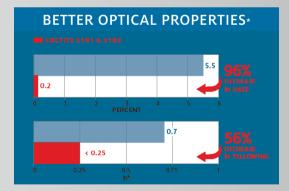


Faster Curing Silicone LOCAs with Better Optical Properties LOCTITE 5191, 5193, 5195 and 5191DM CLEARLY set the benchmark



Silicones have traditionally required more curing energy than acrylics. LOCTITE 5191, 5193, 5195 and 5191DM require 3 to 10 times less curing energy, depending on the substrates, gap and light source. This changes the paradigm and opens the door to a higher level of manufacturability.



All LOCAs will yellow and develop haze when they are exposed to heat, humidity and UV light. LOCTITE 5191[™], 5193[™], 5195[™] and 5191DM[™] start with superior optical properties and set the standard for minimal degradation in optical performance after even the most severe RA testing.





Product Selector Guides

	DIRECT BONDING LOCA SELECTOR GUIDE			DA SEI	
TYPICAL PRODUCT ATTRIBUTES	LOCTITE DSP 5191	LOCTITE DSP 5193	LOCTITE DSP 5195	LOO	
Chemistry	Silicone	Silicone	Silicone	Silico	
Viscosity (mPa · s)	2,700	2,900	4,000	36,0	
Cure Method	UV only	UV/moisture	UV only	UV o	
Light Source Compatibility (MPMA')	MPMA Fusion H+, H, D	MPMA Fusion H+, H, D	MPMA Fusion H+, H, D	MPN Fusio	
Full cure energy (mJ/cm ²) @ 100 mW/cm ² UVA, MPMA ¹ UV Source	5,000	5,000	6,000	5,00	
Shear Modulus (KPa) - MPMA Cured	319	339	36.8	126	
Hardness (Shore Double Zero)	68	70	38	50	
Elongation	130%	120%	> 200%	2709	
Volume Shrinkage	< 0.5%	0.70%	< 0.5%	< 0.5	
Refractive Index	1.41	1.41	1.41	1.41	
% Transmittance (average 380-780 nm), reported at 550 nm	> 99%	> 99%	> 99%	> 999	
Haze @ 250 micron (%)	< 0.5	< 0.5	< 0.25	< 0.5	
Yellowness @ 250 micron (b*)	< 0.25	< 0.25	< 0.25	< 0.2	

DAM LOCA SELECTOR GUIDE				
LOCTITE DSP 5191DM				
Silicone				
36,000				
UV only				
MPMA Fusion H+, H, D				
5,000				
126				
50				
270%				
< 0.5%				
1.41				
> 99%				
< 0.5				
< 0.25				

¹MPMA= Medium Pressure Mercury Arc Light Source

Equipment Partners

To provide best-in-class process support for our LOCA product line, Henkel has formally partnered with the three leading LOCA lamination equipment manufacturers:



INUMA GAUGE MANUFACTURING CO., LTD.

SHIBAURA MECHATRONICS CORPORATION

SUMMARY OF CURRENT HENKEL LAMINATION EQUIPMENT

Capability	linuma KARO3	linuma VFM02	Shibaura M1-Vaster	Easy Field 221980-R1
Dispense Method	Point	Slit coat	Point array	Point
Process Type	Ambient	Vacuum	Vacuum	Ambient
Display Size	2" - 7"	3" - 20"	3" - 10.4"	2" - 27"
Location	Henkel (Shanghai, China) Henkel (Rocky Hill, CT, USA)	linuma (China, Japan)	Henkel (Yokohama, Japan)	Easy Field (Taipei, Taiwan)



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