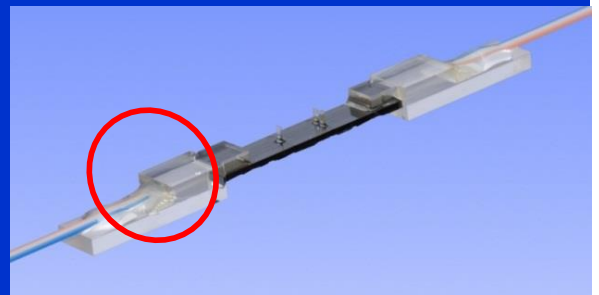


**Introducing the adhesives with high moisture resistance and excellent workability for fiber array assemblies**

## V-Groove Fixing / Optical Fiber Fixing Adhesives for Fiber Array

Fiber arrays are used for the input and output of optical waveguide devices. As adhesives used for fixing the V-Grooves, AT3727E and AT3728E have realized price reductions while enhancing moisture resistance than conventional products with over 20 years more experience. As adhesives for Optical Fiber fixing, the AT9575M and AT8105 have gained popularity for their good workability as non-fluid adhesives.



**High Moisture Resistance and Excellent Durability**

For a Fiber Array, no peeling after 2,000 hours at 85° C, 85 % humidity.  
 \* Our company test results

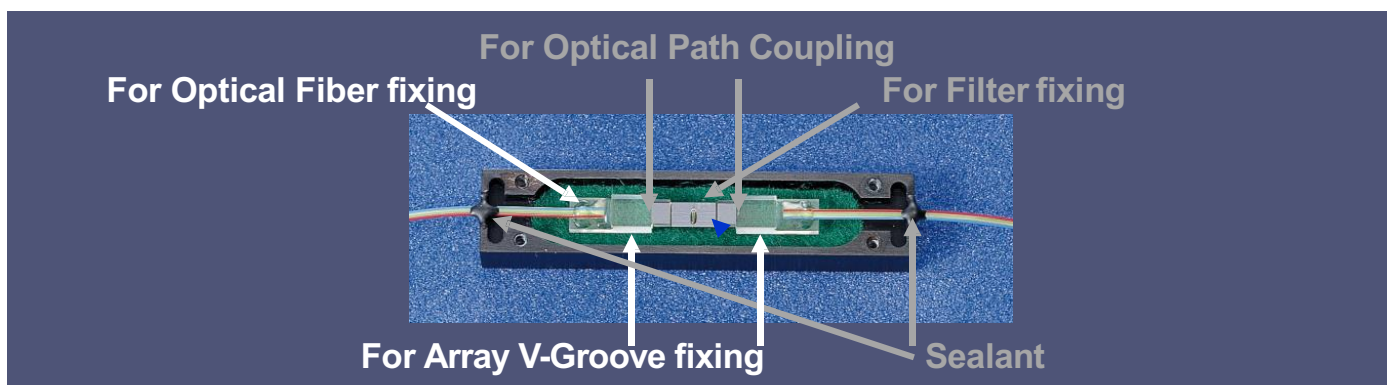
**Can Be Polished**

The adhesives for V-Groove fixing can be polished after assembly.

**Viscosity Appropriate for Usage Location makes it Easy to Use**

The adhesives for fixing V-Grooves have a fluidity, while the optical fiber fixing adhesives are a paste suitable for protecting the fiber.

**Structural Images**



## ■ Properties

Item	Conditions	Units	V-Groove Fixing					Base Fixing	
			AT3925M	AT9390	AT9968	AT3727E	AT3728E	AT9575M	AT8105
Viscosity	25° C	mPa·s	200	600	70	400	400	Paste	Paste
Refractive Index (after curing)	589 nm	-	1.519	1.492	1.512	1.574	1.573	-	-
Curing Conditions	UV Intensity	mW/cm <sup>2</sup>	100	30	100	10	10	100	10
	time	min	10	10	10	10	10	10	5
Glass Transition Temperature (T <sub>g</sub> )	tanδ <sub>max</sub>	° C	219	131	181	107	55	42	103
Shrinkage	Density change	%	3	4	4	4	3	4	7
Hardness	Shore D	-	88	81	85	83	20(A84)	35	78
Thermal Expansion Coefficient (CTE)	25 – 100° C	ppm/° C	67	90	70	134	178	168	111
Shear Bond Strength	Initial period	kgf/cm <sup>2</sup>	>99	>194	>143	>147	>232	>221	>226
	121° C 100% after 20H		>69	>142	>98	>147	>230	>122	>200
Bending Adhesion Strength	Initial period	kgf/cm <sup>2</sup>	-	31	26	34	43	-	-
	121° C 100% after 20H		-	9	14	19	25	-	-
Elastic Modulus	25° C	MPa	1340	1340	1250	1230	560	160	1880
Water Absorption	1mm after 24h	%	2	0	1	0	1	1	3
Weight Loss on Heating	100° C 100h	wt%	0	0	0	0	3	5	1
	150° C 10h		0	0	0	0	3	8	2

※ All company names, product names, etc., indicated herein are trademarks or registered trademarks of each respective company.  
 ※ Please understand that all comments and data recorded herein may be subject to change without prior notification.  
 ※ The values in the table above are not specifications.

For more information

<http://www.ntt-at.com/product/adhesive/>



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