

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

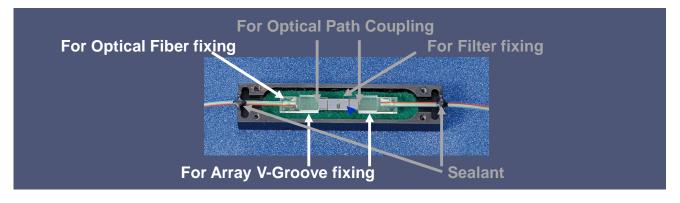
Can Be Polished

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



Features

			V-Groove Fixing					Base Fixing	
Item	Conditions	Units	AT3925M	AT9390	AT9968	АТ3727Е	AT3728E	AT9575M	AT8105
Viscosity	25°C	mPas	200	600	70	400	400	Paste	Paste
Color	Pre-curing	-	Transparency liquid (light yellow)					Colorless	White
Curing Conditions	UV Intensity	mW/cm ²	100	30	100	10	10	100	10
	time	min	10	10	10	10	10	10	5
Tg *	tanδ _{max}	°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	× 10 ⁻⁵ /°C	7	9	9	13	18	17	11
Shear Bond Strength	Initial period	kgf/cm²	>99	>194	>143	>147	>232	>221	>226
	121°C100% after 20h		>69	>142	>98	>166	>230	>122	>200
Bending Adhesion Strength	Initial period	kgf/cm²	-	31	26	34	43	-	-
	121°C100% after 20h		-	9	14	19	25	-	-
Elastic modulus	25°C	dyn/cm²	1 × 10 ¹⁰	1 × 10 ¹⁰	1 × 10 ¹⁰	1 × 10 ¹⁰	6 × 10 ⁹	2 × 10 ⁹	2 × 10 ¹⁰
Water absorption	1mm,after 24h	%	2	0	1	0	1	1	3
Weight loss on heating	100°C100h	wt%	0	0	0	0	3	5	1
	150°C10h		0	0	0	0	3	8	2

 $^{{}^{*}\}mathsf{Tg}:\mathsf{Glass}$ transition temperature

* Numerical values listed are measured values. They are not performance guarantees.

For more information

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



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^{**} Please understand that all comments and data recorded herein may be subject to change without prior notification.