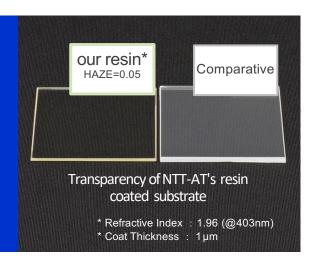


# For those seeking resins with a refractive index of 1.6 or greater

## **High Refractive Index**

At NTT-AT, using its refractive index control technology and optical loss reduction technology that are the basis for adhesives of optical communication, has developed for sale resins with a high refractive index of 1.6. For the high refractive index resins, by adding high refractive index fillers as in the photo on the right, we are able to manufacture resins with a refractive index of 1.9.

These resins are aimed at usage in the fields of optical recording, display technology, optical energy uses, etc.



## **High Transparency**

Possible to fabricate high refractive index resin coat with good transparency which haze value is 1 or less.

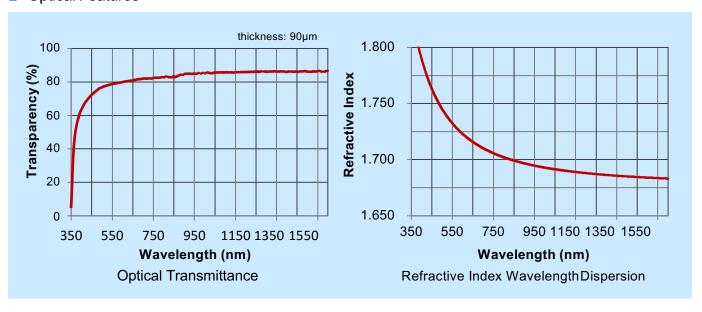
## **Refractive Index Adjustable**

Refractive Index adjustable to 1.6 or more

#### **Customize**

Possible to respondseveral kind of requests such as with/without solvent or adjusting the viscosity.

#### Optical Features



## **Properties**

	Item	Test method: Condition	Units	Acrylate		Ероху	
				#18165	#6205	E3754	#7200
Before curing	Viscosity	25°C	mPa·s	9	20*1	1200	7000
Curing Conditions		UV Intensity	mW/cm²	10	100	100	100
		Time	min	5	5	5	10
After	Refractive Index	589nm	-	1.675	1.720	1.603	1.627
	Glass Transition Temperature (Tg)	$tan\delta_{\sf max}$	°C	113	68	73	63
	Thermal Expansion Coefficient (CTE)	TMA : α1	ppm/°C	144	93	107	60
		TMA : α2		182	191	212	178
	Hardness	Shore D	-	D67	D70	D76	D83
	Elastic Modulus	25°C	MPa	1000	300	2000	1000
	Optical Transmittance	450nm	% ( Thickness 50µm)	94	72 <sup>*2</sup>	92	78
		540nm		96	78 <sup>*2</sup>	96	88
		630nm		96	81*2	96	92
	Shear Bond Strength	glass/glass	kgf/cm²	>48	35	>280	55

<sup>\*1:</sup> Tends to crystallize at low temperatures.

For more information

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



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<sup>\*2:</sup> Thickness 90 µm

<sup>\*</sup> All company names, product names, etc., indicated herein are trademarks or registered trademarks of each respective company.

<sup>\*</sup> Please understand that all comments and data recorded herein may be subject to change without prior notification.

\* The values in the table above are notspecifications.