

**For those seeking resins
 with a refractive index of 1.4 or less**

Low Refractive Index Resins

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 low refractive index of 1.4.

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



High Transparency

90 % or more transparency at 1mm thickness

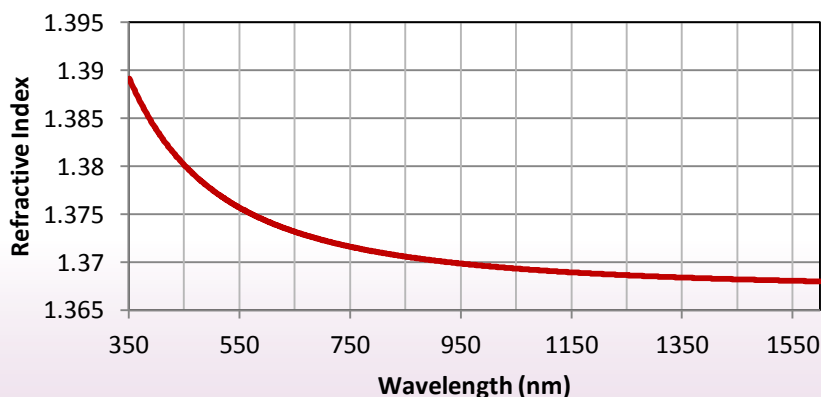
Refractive Index Adjustable

Refractive Index adjustable to 1.4 or less

High accuracy Refractive Index Control

The accuracy of adjusting refractive index is ± 0.005

Optical Features



Refractive Index Wavelength Dispersion of #18204

Specifications

	Item	Test method: Condition	Units	Acrylate		Epoxy
				#18204	#18114	E3810
Before curing	Viscosity	E-type viscometer : 25°C	mPa·s	7	25	100
After curing	Curing Conditions	UV Intensity	mW/cm ²	10	10	10
		time	min	1	5	10
	Refractive Index	589nm	-	1.375	1.400	1.438
	Tg	tanδ _{max}	°C	18	94	103
	Thermal expansion coefficient (CTE)	TMA : α1	×10 ⁻⁵ /°C	-	14	11
		TMA : α2		18	18	24
	Hardness	Shore D	-	D20 A85	D72	D78
	Elastic modulus	Dynamic viscoelasticity : 25°C	MPa	13	800	1000
	Optical Transmittance	450nm	% (Thickness 1mm)	89	92	76
		540nm		91	94	86
630nm		91		94	89	
Shear Bond Strength	glass/glass : 25°C	kgf/cm ²	27	26	>61	

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

For more detailed information of Low Refractive Index Adhesive, please visit our website.

For more information

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



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