

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

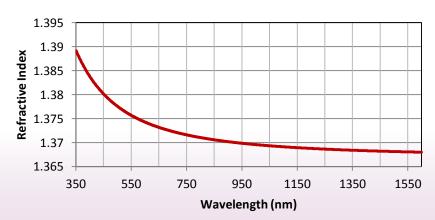
Refractive Index Adjustable

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

Specificatios

	Item	Test method: Condition	Units	Acrylate		Ероху
				#18204	#18114	E3810
Before curing	Viscosity	E-type viscometer: 25°C	mPa·s	7	25	100
After curing	Curing Conditions	UV Intensity	mW/cm²	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/cm²	27	26	>61

^{*} All company names, product names, etc., indicated herein are trademarks or registered trademarks of each respective company.

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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