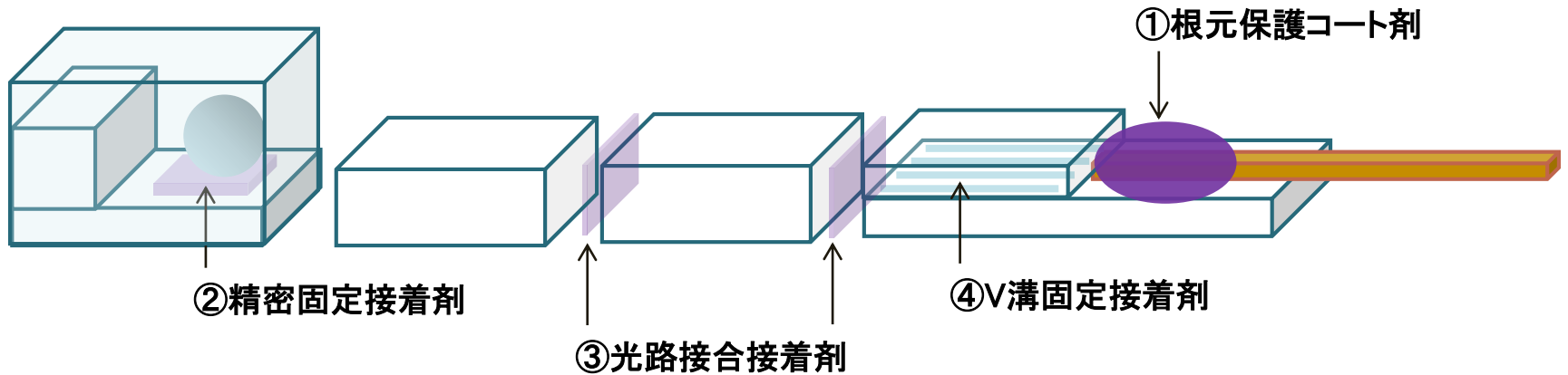


光学接着剤について



部位/樹脂の役割		要求特性
①	根元保護コート剤	防湿性、柔軟性、低表面タック
②	精密固定接着剤	高精度固定、低アウトガス、低CTE
③	光路接合接着剤	屈折率調整、高耐久性
④	V溝固定接着剤	低粘度、高耐湿性、研磨性

①根元保護コート剤

	Z-519H11	Z-519H13	備考
特長	速硬化 低表面タック 高接着 高透明	速硬化 低表面タック 高接着 高透明	-
主成分	アクリル	アクリル	-
外観	無色透明	淡黄色透明	目視確認
硬化条件	3,000mJ/cm ²	3,000mJ/cm ²	高圧キセノン, 100mW/cm ²
粘度	9,500mPa・s	9,700mPa・s	E型粘度計, 25°C
比重	0.95	1.1	Liquid
硬度	A20	A78	JIS K 7215
接着強度	6.1 MPa	1.8 MPa	Glass/Glass, Cross Peel

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②精密固定接着剤

		Z-303-26	備考
特長		低アウトガス 低CTE	-
主成分		エポキシ	-
外観		白色液体	目視確認
粘度		78,000mPa・s	E型粘度計, 25°C
T.I.		1.2	E型粘度計, 25°C
硬化条件		3,000mJ/cm ² +120°C1hr	高圧キセノン, 100mW/cm ²
Tg		138°C	DMA
貯蔵弾性率		2.7 GPa	DMA at 30°C
C.T.E.	α 1	38ppm	TMA
	α 2	160ppm	
重量減少率		<0.01%	TG-DTA, UV硬化後
接着強度		3.7 MPa	Glass/Glass, Shear strength

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③光路接合接着剤

	Z-516RM	Z-516RMJ2	Z-516RMM1	Z-516RMS3	備考
主成分	アクリル樹脂	アクリル樹脂	アクリル樹脂	アクリル樹脂	-
外観	透明液体	透明液体	透明液体	透明液体	目視確認
粘度	447 mPa・s	619 mPa・s	522 mPa・s	506 mPa・s	E型粘度計, 25°C
硬化条件	3000 mJ	3000 mJ	3000 mJ	3000 mJ	Fusion D bulb, 100mW/cm ²
屈折率	1.50	1.50	1.50	1.50	-
透過率 400nm	>99 %	>99 %	>99 %	>99 %	-
透過率 500nm	>99 %	>99 %	>99 %	>99 %	-
透過率 600nm	>99 %	>99 %	>99 %	>99 %	-
透過率 700nm	>99 %	>99 %	>99 %	>99 %	-
透過率 780nm	>99 %	>99 %	>99 %	>99 %	-
比重	1.0	1.0	1.0	1.0	JIS-K-6833
硬度	D37	D15	D22	D53	JIS-K-7215
硬化収縮率	3.7 %	5.5 %	6.3 %	6.0 %	vol/vol
弾性率	78.5 MPa	0.4 Mpa	0.8 Mpa	25.0 Mpa	No.8ダンベル 引っ張り速度: 10mm/min
最大荷重応力	5.4 MPa	1.3 Mpa	3.3 Mpa	5.2 Mpa	
ひずみ	473 %	348 %	384 %	73 %	

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④V溝固定接着剤

	Z-590VM8	Z-590VM9	備考
特長	高Tg	柔軟 高信頼性	-
主成分	エポキシ	エポキシ	-
外観	淡黄色透明	淡黄色透明	目視確認
硬化条件	6,000mJ/cm ² +120°C30min	6,000mJ/cm ² +120°C30min	Metal Halide 100mW/cm ²
粘度	590mPa・s	160mPa・s	E型粘度計, 25°C
硬度	D81	D78	デュロメーター
弾性率	2.4GPa	2.3GPa	DMA, 25°C
Tg	131°C	81°C	DMA
CTE	70ppm	70ppm	TMA
接着強度	43MPa	47MPa	G/G Shear strength
保管条件	15~30°C	15~30°C	-

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