

OPTOLINQ™ GT-W170-6



White reflective compound

- Balanced performance
- 90% Reflectance at 940nm
- 91% Reflectance at 800nm

OPTOLINQ GT-W170-6 is a white reflective compound used in photocoupler applications. It exhibits excellent reflectance and low transmittance at 800 and 940nm and offers good heat resistance. This formulation contains ~70-75% crushed silica and is an overall balanced optical solution.

Recommended Curing Schedule: 100 - 120sec + 2 - 6 hours @175°C

Formulation

Property	Value
Epoxy	Confidential
Hardener	Confidential
Filler Type	Crushed
Filler content	70 - 75%

Molding Parameters

Molding Condition	Value	Unit
Preheat Temperature	70 - 90	°C
Mold Temperature	170 - 180	°C
Transfer pressure	30 - 60	kgf/cm2
Transfer time	20 - 50	sec

Cured properties

Property	Value	Unit	Condition
Specific Gravity	1.8	-	-
Spiral flow	30 - 60	Inch	@175°C
Gel Time	20 - 30	Sec	@175°C
Glass transition temperature	150	°C	-
CTE α1	20 - 24	ppm/°C	-
CTE α2	45 - 75	ppm/°C	-
Flexural Strength @ 25°C	140	MPa	@ 25°C
Flexural Modulus @ 25°C	14	GPa	@ 25°C
Light Reflectance	>85	%	@800nm
Light Transmittance	<0.1	%	@800nm
pH	4.1	-	-
CTI	200	V	-
Dielectric Strength	12	kV/mm	@ 25°C

Storage and Handling

Store in a ventilated, dry, and clean environment below 5°C. Keep away from fire and heat sources. It is strictly forbidden to store in outdoor environments. At proper storage conditions, the product has a shelf life of 6 months.

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