

OPTOLINQ™ GT-W170-15



White reflective compound

- High MSL
- 89% Reflectance at 940nm
- 91% Reflectance at 800nm

OPTOLINQ GT-W170-15 is a white reflective compound used in optocoupler applications. It exhibits excellent reflectance and low transmittance at 800 and 940nm and displays good moldability and MSL performance. This formulation contains ~70-75% crushed & spherical silica and performs great against moisture.

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

Formulation

Property	Value
Epoxy	OCN
Hardener	PN
Filler Type	Crushed + Spherical
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	1.85	-	-
Spiral flow	30 - 50	Inch	@175°C
Gel Time	20 - 40	Sec	@175°C
Glass transition temperature	150	°C	-
CTE α1	19 - 22	ppm/°C	-
CTE α2	40 - 70	ppm/°C	-
Flexural Strength @ 25°C	140	MPa	@ 25°C
Flexural Modulus @ 25°C	16	GPa	@ 25°C
Light Reflectance	>90	%	@800nm
Light Transmittance	<0.1	%	@800nm
pH	5.8	-	-
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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