

The Master Batch for Laser Transmission

eBIND® LTW-series

# eBIND® LTW®-8620C

- Base Polymer : PA6
- Recommended Dilution Ratio : 30 times

## Optical Properties

**Test Polymer** PA6-GF30% : Amilan® 1011G30

**Polymer Maker** Toray Industries, Inc.

Cylinder Temperature	280°C
Molding Temperature	90°C
Injection Molding Machine	Si-50
Thickness	3mm

Wavelength	Transmittance (%)		Reflectance (%)
	Initial	After 15min in the molding machine	
940nm	47	40	12
980nm	49	43	12
1064nm	52	46	11
1100nm	54	48	11

## Appearance

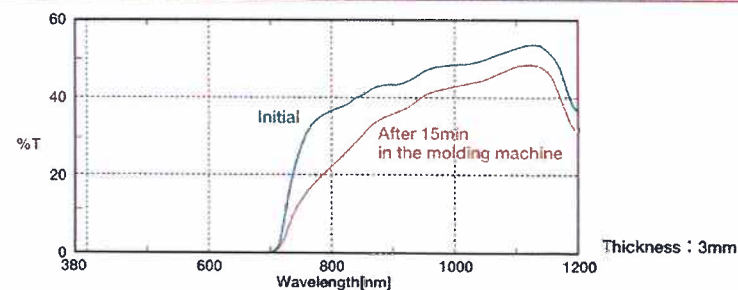
Hue	Black
OD Value	2.82
L*Value	2.35
a*Value	-0.20
b*Value	-1.09
Y Value	0.40
ΔE (Heat Resistance) After 15min in the molding machine	1.55

Light Source : C-2 30mmφ

## Registrations

ENCS Japan	TSCA USA	EINECS EU	AICS Australia	ECL Korea	IECSC China
○	○	○	×	×	○

## Transmission Spectrum



## Mechanical Properties

**Test Polymer** PA6-GF30% : Amilan® 1011G30

**Polymer Maker** Toray Industries, Inc.

Cylinder Temperature	280°C
Molding Temperature	90°C
Injection Molding Machine2	Si-80

		strength retention
Tensile Strength	162MPa	93%
Flexural Strength	238MPa	92%
Charpy Impact Strength	16kJ/m <sup>2</sup>	94%

## Color Fastness

Sublimation Resistance	◎ Excellent	80°C/24hrs. 200g/cm <sup>2</sup>
Fastness of Blooming (Moisture Resistance)	◎ Excellent	80°C 95%RH
Chemical Resistance	Acid	18%HCl aq. pH:1
	Alkali	◎ Excellent 10%NaOH aq. pH:13
	Ethanol	◎ Excellent
	Toluene	◎ Excellent

※ This data is the evaluation result only. We do not guarantee as the product specification. There are times when it is not possible to supply for the prototype.  
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