

The Master Batch for Laser Transmission

eBIND® LTW-series

# eBIND® LTW®-8950H

- Base Polymer : PBT
- Recommended Dilution Ratio : 40 times

## Optical Properties

**Test Polymer** PBT-GF30% : NOVADURAN® 5010G30

**Polymer Maker** Mitsubishi Engineering-Plastics Corp.

Cylinder Temperature	250℃
Molding Temperature	80℃
Injection Molding Machine	SI-50
Thickness	1.5mm

Wavelength	Transmittance (%)		Reflectance (%)
	Initial	After 15min in the molding machine	
940nm	23	23	52
980nm	23	23	51
1064nm	25	27	50
1100nm	25	27	48

## Appearance

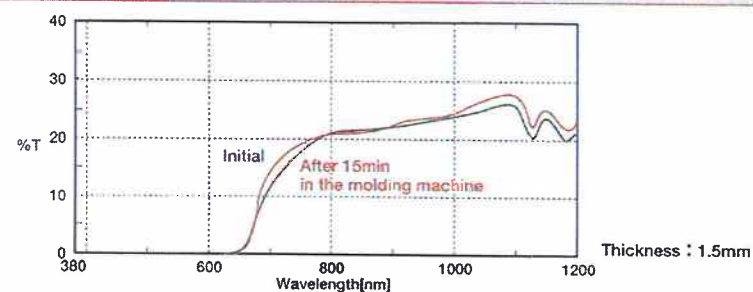
Hue	Reddish Black
OD Value	1.81
L* Value	2.93
a* Value	2.56
b* Value	3.07
Y Value	0.43
Δ E (Heat Resistance) After 15min in the molding machine	1.98

Light Source : C-2 30mm<sup>φ</sup>

## Registrations

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

## Transmission Spectrum



## Mechanical Properties

**Test Polymer** PBT-GF30% : NOVADURAN® 5010G30

**Polymer Maker** Mitsubishi Engineering-Plastics Corp.

Cylinder Temperature	250℃
Molding Temperature	80℃
Injection Molding Machine <sup>2</sup>	SI-80

		strength retention
Tensile Strength	124MPa	100%
Flexural Strength	188MPa	99%
Charpy Impact Strength	8kJ/m <sup>2</sup>	91%

## Color Fastness

Sublimation Resistance	△ Good	80℃/24hrs. 200g/cm <sup>2</sup>
Fastness of Blooming (Moisture Resistance)	◎ Excellent	80℃ 95%RH
Chemical Resistance	Acid	◎ Excellent 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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Orient Chemical Industries, Ltd.

2007.3 2008