

The Master Batch for Laser Transmission

eBIND® LTW-series

eBIND® LTW® -8702H

- Base Polymer : PA66
- Recommended Dilution Ratio : 50 times

Optical Properties

Test Polymer PA66-GF30% : Zytel® 70G333L

Polymer Maker du Pont de Nemours and Company

Cylinder Temperature	290°C
Molding Temperature	90°C
Injection Molding Machine	Si-50
Thickness	3mm

Wavelength	Transmittance (%)		Reflectance (%)
	Initial	After 15min in the molding machine	
940nm	43	39	14
980nm	44	41	13
1064nm	47	44	12
1100nm	49	46	12

Appearance

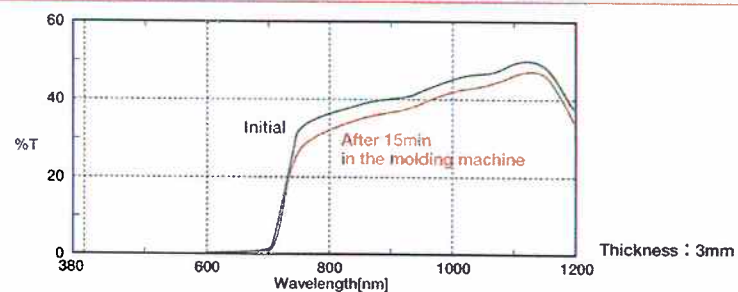
Hue	Black
OD Value	2.34
L* Value	8.39
a* Value	2.55
b* Value	-1.60
Y Value	0.93
ΔE (Heat Resistance) After 15min in the molding machine	1.54

Light Source : C-2 30mmφ

Registrations

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

Transmission Spectrum



Mechanical Properties

Test Polymer PA66-GF30% : Zytel® 70G333L

Polymer Maker du Pont de Nemours and Company

Cylinder Temperature	290°C
Molding Temperature	90°C
Injection Molding Machine2	Si-80

		strength retention
Tensile Strength	171MPa	98%
Flexural Strength	243MPa	95%
Charpy Impact Strength	12kJ/m²	100%

Color Fastness

Sublimation Resistance	△ Good	80°C/24hrs. 200g/cm²
Fastness of Blooming (Moisture Resistance)	△ Good	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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Orient Chemical Industries, Ltd.

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