

The Master Batch for Laser Transmission

eBIND® LTW-series

eBIND® LTW® -8601H

- Base Polymer : PA6
- Recommended Dilution Ratio : 50 times

Optical Properties

Test Polymer PA6-GF30% : Zytel® 73G30L

Polymer Maker du Pont de Nemours and Company

Cylinder Temperature	270°C
Molding Temperature	65°C
Injection Molding Machine	Si-50
Thickness	3mm

Wavelength	Transmittance (%)		Reflectance (%)
	Initial	After 15min in the molding machine	
940nm	51	47	10
980nm	53	49	10
1064nm	55	51	10
1100nm	57	53	9

Appearance

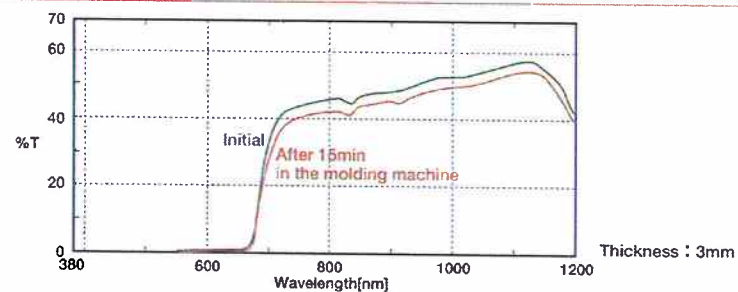
Hue	Black
OD Value	2.77
L* Value	2.53
a* Value	1.01
b* Value	-1.44
Y Value	0.41
ΔE (Heat Resistance) After 15min in the molding machine	1.03

Light Source : C-2 30mmφ

Registrations

ENCS Japan	TSCA USA	EINECS EU	AICS Australia	ECL Korea	IECSC China
<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

Transmission Spectrum



Mechanical Properties

Test Polymer PA6-GF30% : Zytel® 73G30L

Polymer Maker du Pont de Nemours and Company

Cylinder Temperature	270°C
Molding Temperature	65°C
Injection Molding Machine?	Si-80

		strength retention
Tensile Strength	145MPa	98%
Flexural Strength	203MPa	98%
Charpy Impact Strength	17kJ/m ²	100%

Color Fastness

Sublimation Resistance	△ Good	80°C/24hrs. 200g/cm ²
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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Orient Chemical Industries, Ltd.

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