

The Master Batch for Laser Transmission

eBIND® LTW-series

eBIND® LTW®-8731H

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

Optical Properties

Test Polymer PA66-GF33% : LEONA® 14G33

Polymer Maker Asahi Kasei Chemicals Corporation

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	40	26	22
980nm	42	28	22
1064nm	44	28	21
1100nm	44	29	20

Appearance

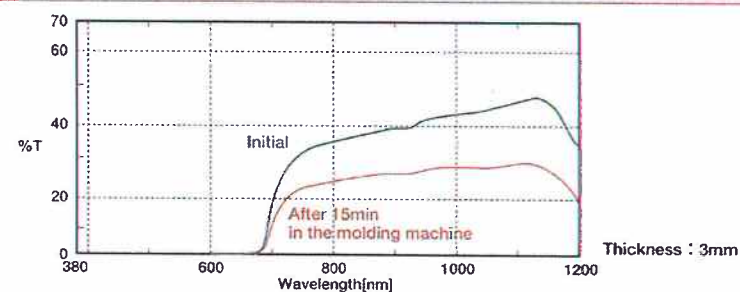
Hue	Black
OD Value	2.38
L*Value	8.99
a*Value	2.83
b*Value	-0.57
Y Value	1.00
ΔE (Heat Resistance) After 15min in the molding machine	1.25

Light Source : C-2 30mm^φ

Registrations

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

Transmission Spectrum



Mechanical Properties

Test Polymer PA66-GF33% : LEONA® 14G33

Polymer Maker Asahi Kasei Chemicals Corporation

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

		strength retention
Tensile Strength	165MPa	97%
Flexural Strength	247MPa	98%
Charpy Impact Strength	14kJ/m ²	91%

Color Fastness

Sublimation Resistance	△ Good	80°C/24hrs. 200g/cm ²
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	○ Fine
	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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