

The Master Batch for Laser Transmission

eBIND® LTW-series

eBIND® LTW® -8901H

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

Optical Properties

Test Polymer PBT-GF30% : Crastin® SK605

Polymer Maker du Pont de Nemours and Company

Cylinder Temperature	270C
Molding Temperature	65C
Injection Molding Machine	Si-50
Thickness	1.5mm

Wavelength	Transmittance (%)		Reflectance (%)
	Initial	After 15min in the molding machine	
940nm	26	27	54
980nm	27	28	53
1064nm	28	29	51
1100nm	28	29	50

Appearance

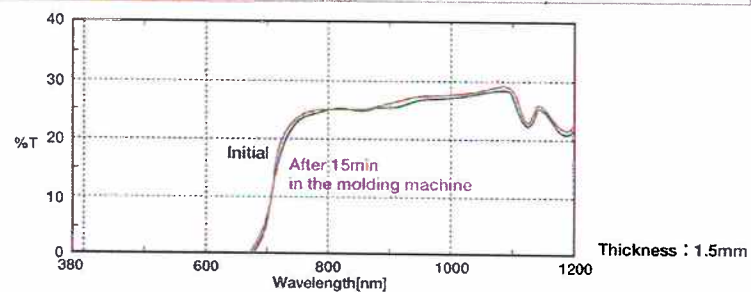
Hue	Black
OD Value	1.91
L* Value	2.01
a* Value	2.00
b* Value	2.74
Y Value	0.37
ΔE (Heat Resistance) After 15min in the molding machine	0.66

Light Source : C-2 30mmφ

Registrations

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

Transmission Spectrum



Mechanical Properties

Test Polymer PBT-GF30% : Crastin® SK605

Polymer Maker du Pont de Nemours and Company

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

		strength retention
Tensile Strength	128MPa	98%
Flexural Strength	191MPa	97%
Charpy Impact Strength	9kJ/m ²	83%

Color Fastness

Sublimation Resistance	△ Good	80C/24hrs. 200g/cm ²
Fastness of Blooming (Moisture Resistance)	◎ Excellent	80C 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.

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