

The Master Batch for Laser Transmission

eBIND® LTW-series

eBIND® LTW® -8170C

- Base Polymer : PP
- Recommended Dilution Ratio : 30 times

Optical Properties

Test Polymer PP-GF30% : DaicelPP® PG6N1

Polymer Maker Daicel Polymer Ltd.

Cylinder Temperature	200°C
Molding Temperature	40°C
Injection Molding Machine	Si-50
Thickness	3mm

Wavelength	Transmittance (%)		Reflectance (%)
	Initial	After 15min in the molding machine	
940nm	26	25	25
980nm	27	26	26
1064nm	28	27	24
1100nm	29	28	24

Appearance

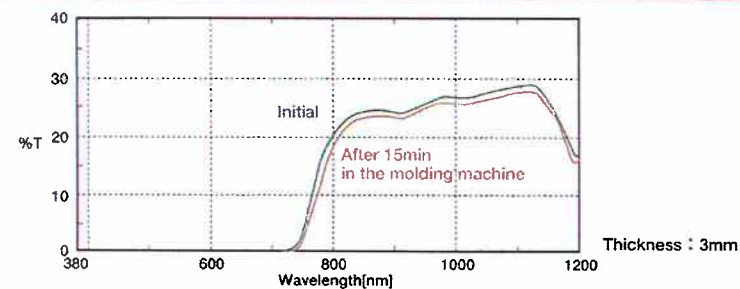
Hue	Black
OD Value	1.71
L* Value	19.27
a* Value	1.17
b* Value	-1.76
Y Value	2.81
ΔE (Heat Resistance) After 15min in the molding machine	2.80

Light Source : C-2 30mm

Registrations

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

Transmission Spectrum



Mechanical Properties

Test Polymer PP-GF30% : DaicelPP® PG6N1

Polymer Maker Daicel Polymer Ltd.

Cylinder Temperature	200°C
Molding Temperature	60°C
Injection Molding Machine2	Si-80

		strength retention
Tensile Strength	76MPa	92%
Flexural Strength	102MPa	90%
Charpy Impact Strength	8kJ/m²	83%

Color Fastness

Sublimation Resistance	◎ Excellent	80°C/24hrs. 200g/cm²
Fastness of Blooming (Moisture Resistance)	◎ Excellent	80°C 95%RH
Chemical Resistance	Acid	◎ Excellent 18%HCl aq. pH:1
	Alkali	◎ Excellent 10%NaOH aq. pH:13
	Ethanol	◎ Excellent
	Toluene	○ Fine

*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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