

The Master Batch for Laser Transmission

eBIND® LTW-series

eBIND® LTW® -8400C

- Base Polymer : PPS
- Recommended Dilution Ratio : 25 times

Optical Properties

Test Polymer PPS-GF30% : FORTRON® 1130A6

Polymer Maker Polyplastics Co., Ltd.

	Wavelength	Transmittance (%)		Reflectance (%)
		Initial	After 15min in the molding machine	
Cylinder Temperature	320°C			
Molding Temperature	150°C			
Injection Molding Machine	Si-50			
Thickness	1.5mm			
	940nm	15	15	63
	980nm	15	16	62
	1064nm	17	17	61
	1100nm	17	18	60

Appearance

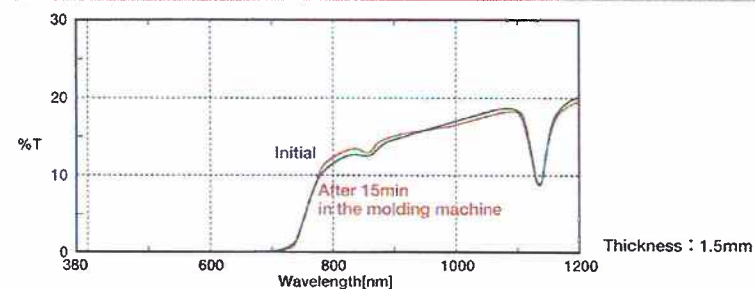
Hue	Bluish Black
OD Value	1.76
L* Value	19.56
a* Value	0.28
b* Value	-7.10
Y Value	2.88
ΔE (Heat Resistance) After 15min in the molding machine	3.46

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 PPS-GF30% : FORTRON® 1130A6

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Cylinder Temperature	320°C		strength retention
Molding Temperature	150°C	Tensile Strength	155MPa 100%
Injection Molding Machine2	Si-80	Flexural Strength	219MPa 99%
		Charpy Impact Strength	8kJ/m² 99%

Color Fastness

Sublimation Resistance	△ Good	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	◎ 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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