

The Master Batch for Laser Transmission

eBIND® LTW-series

eBIND® LTW®-8000C

● Base Polymer : HTN ● Recommended Dilution Ratio : 25 times

Optical Properties

Test Polymer HTN-GF35% : Zytel® HTN 51G35HSL

Polymer Maker du Pont de Nemours and Company

Cylinder Temperature	320°C
Molding Temperature	140°C
Injection Molding Machine	Si-50
Thickness	3mm

Wavelength	Transmittance (%)		Reflectance (%)
	Initial	After 5min in the molding machine	
940nm	17	18	30
980nm	18	19	29
1064nm	18	20	27
1100nm	19	21	27

Appearance

Hue	Black
OD Value	2.10
L* Value	10.41
a* Value	2.02
b* Value	-2.03
Y Value	1.18
Δ E (Heat Resistance) After 15min in the molding machine	1.67

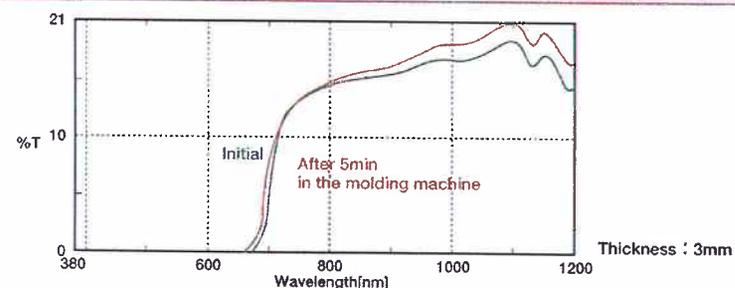
Light Source : C-2 30mmφ

Registrations

ENCS Japan	TSCA USA	EINECS EU	AICS Australia	ECL Korea	IECSC China
*	LVE	×	×	×	×

*small volumes of new chemical substances

Transmission Spectrum



Mechanical Properties

Test Polymer HTN-GF35% : Zytel® HTN 51G35HSL

Polymer Maker du Pont de Nemours and Company

Cylinder Temperature	320°C
Molding Temperature	140°C
Injection Molding Machine2	Si-80

		strength retention
Tensile Strength	161MPa	83%
Flexural Strength	261MPa	94%
Charpy Impact Strength	9kJ/m ²	94%

Color Fastness

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

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