

SewGlo™ Illuminated Thread Datasheet



Product: SewGlo™ HD Illuminated Thread

Features	Application
Relatively Thick	Sewing , weaving, knitting, taping, etc.
Good Mechanical Properties	Automotive interior, fashion and apparel, decoration, etc.

Item	Condition	Unit	Data
Broken Strength	Clamping Distance 200mm Stretching Speed 100mm/min	N	≥60
Elongation	Clamping Distance 200mm Stretching Speed 100mm/min	%	3-5
Diameter	/	mm	0.48±0.05
Luminance	1 m fiber , AC 110 V / 2000 Hz	cd/m ²	≥20
Lighting Time	1 m fiber , AC 140 V / 1000 Hz	h	3000
Abrasion	Martindale Friction Test (Sewing Stitches) GB/T 21196.2-2007 Method A, Weight 795 g	time	3000
	Gakushin Friction Test (Fabric) Learned Vibration Friction Test (Fabric) Weight 1 KG, Speed 30 cycles/min	time	6000
Washing	Tapes being repeatedly washed in water 100 times by adding 0.5% washing solution and 50 steel balls in the water washing for resistance metering	time	100
High Temperature and High Humidity	Temperature 70°C, Humidity 95%	day	14
High Temperature	Temperature 100°C	day	14
Weathering Resistance	Wavelength 420nm, Irradiance 1.25W, Black Label Temperature 100°C, Relative Humidity 50%, 700kj/m ²	level	3-4

Others			
Chemical Safety	REACH 209, Heavy metals, fluorescent substances, allergic dyes, carcinogenic dyes, skin irritants and 14 others	/	Qualified
Anti-Electromagnetic Interference	Low-frequency Band: 9 k Hz → 100 k Hz High-frequency Band: 150 k Hz → 6.2 M Hz	/	Qualified
Anti-static	Contact Discharge (2000 V, 4000 V, 6000 V) Air Discharge(6000 V, 8000 V, 15000 V, 25000 V)	/	Qualified

Working Condition	/	Unit	Data
AC Voltage	Min	V	80
	Max		200
AC Frequency	Min	Hz	400
	Max		4000
Working Temperature	Min	°C	-30
	Max		150
Processing Temperature	Max	°C	180

Note:

Above data should be taken as classical values only. Unless expressly agreed in writing, they should not be recognized as indicative or guaranteed values for the material. Unless otherwise stated, all data were obtained from tests conducted on standard samples at room temperature.

SewGlo™ Illuminated Thread Datasheet



Product: SewGlo™ Illuminated Thread

Features	Application
Thin Flexible	Embroidering , weaving, knitting, taping, etc. Automotive interior, fashion and apparel, decoration, etc.

Item	Condition	Unit	Data
Broken Strength	Clamping Distance 200mm Stretching Speed 100mm/min	N	≥7
Elongation	Clamping Distance 200mm Stretching Speed 100mm/min	%	3-5
Diameter	/	mm	0.30±0.03
Luminance	1 m fiber , AC 110 V / 2000 Hz	cd/m ²	≥13
Lighting Time	1 m fiber , AC 140 V / 1000 Hz	h	3000
Abrasion	Martindale Friction Test (Knitted Fabrics) GB/T 21196.2-2007 Method A Weight 795 g	time	8000
Washing	Tapes being repeatedly washed in water 100 times by adding 0.5% washing solution and 50 steel balls in the water washing for resistance metering.	time	100
High Temperature and High Humidity	Temperature 70°C, Humidity 95%	day	14
High Temperature	Temperature 100°C	day	14
Weathering Resistance	Wavelength 420nm, Irradiance 1.25W, Black Label Temperature 100°C, Relative Humidity 50%, 700 kj/m ²	level	3-4

Others			
Chemical Safety	REACH 209, Heavy metals, fluorescent substances, allergic dyes, carcinogenic dyes, skin irritants and 14 others	/	Qualified
Anti-Electromagnetic Interference	Low-frequency Band: 9 k Hz → 100 k Hz High-frequency Band: 150 k Hz → 6.2 M Hz	/	Qualified
Anti-static	Contact Discharge (2000 V, 4000 V, 6000 V) Air Discharge(6000 V, 8000 V, 15000 V, 25000 V)	/	Qualified

Working Condition	/	Unit	Data
AC Voltage	Min	V	80
	Max		200
AC Frequency	Min	Hz	400
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Working Temperature	Min	°C	-30
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