

PETG Glow In The Dark 广东三绿

Product features:

The printed work can glow at night after absorbing light, sunlight and UV light.

The luminance and duration of absorbing UV light > Sunlight > Light

Main applications: 2024.04.02

Ornaments, toys ornaments, handcrafts

Points for attention:

受控文件

The exposed time of the consumables after opening the packaging is more than 48H. In order to obtain better print quality, the consumables need to be dried.

Properties	Test Method	Test Condition	S.I. Units	Typical Values
Mechanical			•	
Tensile Strength (X-Y)	ISO527/2	50mm/min	MPa	51
Young' s Modulus (X-Y)	ISO527/2	1mm/min	MPa	/
Elongation at break (X-Y)	ISO527/2	50mm/min	%	20
Flexural Strength (X-Y)	ISO178	2mm/min	MPa	79
Flexural Modulus (X-Y)	ISO178	2mm/min	MPa	2380
IZOD Impact Notched (X-Y)	ISO180	23℃	KJ/m ²	2.7
IZOD Impact Notched (Z-X)	ISO180	23℃	KJ/m ²	5.1
Shore hardness	ISO868	23℃	HD	80
Thermal				
Heat Deflection (HDT)	ISO75	0.45MPa	°C	71
Glass Transition(Tg)	ISO11357-3	10°C/min	℃	65
Melting Point	ISO11357-3	10°C/min	℃	/
@5%Decomposition Temp.	ISO11358	20°C/min	℃	≥423
Vicat Softening Temp.	ISO306	5kg,50°C/h	℃	71
Mold Shrinkage	ISO294	23℃	%	0.1-0.5
Coefficient of Thermal Exp.	ISO11359-2		μm (m·°C)	/
Others				
Melt Flow Rate	ISO1133	190°C/2.16kg	g/10min	8.9
Density	ISO1183	23℃	g/cm³	1.32
Volume Resistivity	IEC60093	-	ohm-cm	1.0E+15
Dielectric Constant	IEC60250	1kHz		2.6
Flammability	UL94	1.5mm	Class	НВ
Chemical resistance				
Item		Class		
Weak Acid (pH 3-6)		Good		
Strong Acid (pH<3)		Poor		
Weak Bases (pH 8-10)		Good		
Strong Bases (pH >10)		Poor		
Deionized Water		Good		



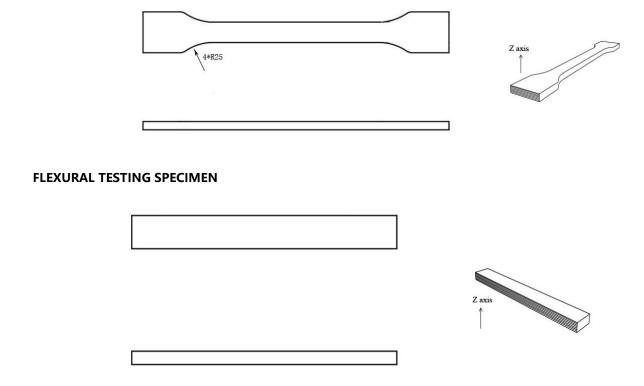
Alcohol	Good	
Ketone	Poor	
Petroleum Fuels	Good	
Ester	Good	

Class: Excellent, Good, Fair, Poor Recommended Printing Parameters

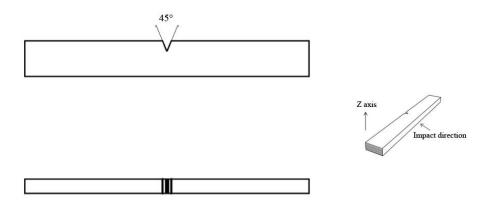
Parameters	Range		
	Temperature °C	Speed mm/s	
Nozzle Print Temp.	235-245	50-100	
	245-250	100-200	
Print Platform Temp.	70-80°C		
Print Platform Material	Normal		
Print Platform Treatment	No processing required		
Cool Fan	On⊠/Off□		
Raft Distance	0.4-0.6mm		
Retraction Distance	0.8-1.2mm		
Retraction Speed	30-40mm/s		
Room Temp.	Normal temperature		
Support Material	PVA		
Drying Temp.	50℃		

The above values are for the reference of the printer only, and the above process can be adjusted appropriately according to different models, different models and product requirements

TENSILE TESTING SPECIMEN







Note:

[1] Test the spline printing speed 45 mm/s,print temperature 240 °C,Fill 100%,the cabling mode is 90 degrees

[2] Typical value refers to the laboratory average data, only for use as a reference, not as the standard of the product, different printers have different printing.

Safety and Handling Precautions

A Material Safety Data Sheet (SDS) for this product is available from your local Sunlu office.

The SDS provides customers with information on material handling, safety and disposal, as well as the requirements of applicable local health and safety regulations. The following are general precautions and apply only to the resins supplied. The various additives and processing aids used in plastics moulding and other materials used in secondary processes have their own safety requirements and must be understood separately.

This product has extremely low toxicity, and under normal conditions of use, there are no particular issues with inhalation, eye contact, or skin contact. However, care must be taken when handling, storing, using or disposing of these resins. Workplace should be kept clean to avoid dust accumulation. Contact with molten resins during processing operations should be minimized. Plastic resin products generate dust and gases during the manufacturing process. Dust generated during operations such as sawing, filing and sanding of printed parts may irritate the eyes and upper respiratory tract. In dusty manufacturing environments, it is recommended that operators use respirators or masks approved by the appropriate authorities.

The print processing area should be well ventilated as required by proper operating procedures. When plastics are processed above the melting temperature, fumes containing decomposing substances are released and may be irritating. In most cases, good general ventilation equipment is sufficient. Local extract ventilation should be used when necessary. When there is a risk of eye injury from airborne particles during work, protective goggles should be worn. If necessary, wear insulated gloves for protection when handling the resin. The product may yellow under the action of ultraviolet light, so it should be stored away from direct sunlight.

Users are advised to investigate the final use of their product beforehand to ensure the correct use of Sunlu products. To prevent misuse or incorrect use of Sunlu products, it is advisable to contact the Sunlu R&D department or the marketing department.



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