

Materials Specifications

Environmental Flame Retardant PBT Resin for Optical Fiber Cables

I.Type and application

Type	Product	Application
GL12V0	Environmental Flame Retardant PBT resins for Optical Fiber Cables.	The PBT resin is typically for Flame Retardant Optical Fiber Cables, meeting UL 94 V0 flame retardant standard.

II.Processing

Two sets of plastic equipment

Screw Diameter $\phi 45 \sim \phi 65$ Draw ratio : 25:1 or 30:1

The recommended processing temperature FOR $\phi 65$, $\phi 1.2-1.4\text{mm}$.

Please fully dry before use at 90-110 °C for 1-3 hours.

ZONE 1	ZONE 2	ZONE 3	ZONE 4	ZONE 5	Flan	Handpiece1	Handpiece2	Hot Water	Warm Water
230	245	250	255	255	255	255	250	45	30

Note:If the product is found to be damped in rainy reason or with high moisture in the air, It can be used two hour later after it is dried at the temperature of 120°C.

IV. Storage and Transportation

Package:

900kg/bag, with the inner lining of aluminum foil material, outer lining of PE woven material.

Or 25kg/bag, with inner lining of aluminum foil material, outer lining of kraft paper material.

Storage and Transportation:

Avoiding in direct sunlight and weathering. The storage place should be in clean, cool, dry, and ventilated conditions.

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V. properties

Item	Unit	Typical value	Test Standard
Physical property			
Density (23±0.5)°C	g/cm ³	1.32	ISO 1183-1
Melting Index (250 °C, 2.16kg)	g/10min	18.4	ISO 1133-2
Mechanical properties			
Tensile strength at yield	MPa	58.6	ISO 527-2
Elongation at break	%	40	ISO 527-2
Flexural Mode	MPa	2550	ISO 527-4
Bending Strength	MPa	75.3	ISO 527-4
Shore Hardness	Shore D	72	ISO 868
Izod impact strength 23°C	KJ/m ²	8.02	ISO 180
Thermal performance			
Flame Retardant Grade	V0	Pass	UL 94
Thickness	mm	3.2	UL 94