



**KKALPALOX PBT 2FG HB WHITE C-1108**  
**GLASS FIBRE / MINERAL REINFORCED PBT COMPOUND FOR LED COMPONENTS**

**Technical Data Sheet**

KKALPALOX PBT 2FG HB WHITE C-1108 is a glass fibre / Mineral reinforced Poly Butylene Terephthalate (PBT) compound, specially developed for LED light base component. It consists of a mixture of chopped strand glass fibres and minerals, compatibilized with the PBT matrix by special coupling agent package and is pre-coloured in the standard white used in the industry. This grade is chemically and dimensionally stable with good combination of toughness and rigidity. This is offered in Natural and other pre-coloured versions.

**CATEGORY**

- Glass fibre / mineral reinforced PBT composite
- KKALPALOX PBT 2FG HB WHITE C-1108 is usable directly for injection moulding

**COMPOUNDING**

- Carefully chosen imported PBT grades melt blended homogeneously in twin screw compounding system
- Specially coated chopped strand glass fibres and / or minerals, along with suitable pigment mix are introduced at appropriate compounding stage controlled by state-of-the-art loss-in-weight feeders,
- The complete compound protected by special additives for maintaining properties and to resist colour changes during further process

**APPLICATION**

- KKALPALOX PBT 2FG HB WHITE C-1108 is used directly for injection moulding of the base component in LED lights and other useful components
- Many models of LED light base components use this grade

**ADVANTAGES**

- Balanced rigidity & toughness
- Excellent thermal, chemical & dimensional stability
- Stored under proper conditions, very low moisture absorption Rev 12/23

## TECHNICAL SPECIFICATION

Properties	Test method	Unit	Typical value
<b>Physical Properties</b>			
Melt Flow Index @ 250° C / 2.16 kg	ASTM D-1238	gm / 10min	30 ± 3
Specific Gravity	ASTM D-792	-	1.53 ± 0.02
<b>Thermal Properties</b>			
Heat Deflection Temperature (1.8 Mpa / 6.4 mm)	ASTM D-648	°C	170 ± 3
<b>Flammability</b>			
Flammability @ 3.2mm thickness	DPIL Std based on UL-94	-	HB
Glow Wire Index	IEC-60695-2-12	°C	≥ 650
<b>Mechanical Properties</b>			
Notched Izod impact strength	ASTM D-256	Kg.cm/cm	5 ± 1
Tensile Strength at yield	ASTM D-638	Kg/cm <sup>2</sup>	800 ± 50
Flexural strength	ASTM D-790	Kg/cm <sup>2</sup>	1250 ± 100
Flexural Modulus	ASTM D-790	Kg/cm <sup>2</sup>	53000 ± 1000

## IM PROCESS PARAMETERS

<b>Pre-Drying</b>		
Temperature	°C	100 - 110
Time	Hours	2 - 3
<b>Process Temperatures</b>		
(Guide lines only; Customer to optimize as per component requirements)		
Feed	°C	95 - 105
Zone-1	°C	220 – 230
Zone-2	°C	225– 235
Zone-3	°C	235 – 245
Nozzle	°C	240 - 250
Mould	°C	85 - 90

**Storage** : The material shall be kept in a cool and dry place.

**Form** : Pellets

**Package** : 25 kg bags

### **DISCLAIMER:**

The above Technical Data Sheet presents information and data, true and accurate to the best of our knowledge. No warranty expressed or implied can be made regarding performance or otherwise.

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