



KKALPALOX PBT 2G HB WHITE C-112-O
REINFORCED PBT COMPOUND FOR LIGHT LEAKAGE ARRESTING LED COMPONENTS

Technical Data Sheet

KKALPALOX PBT 2G HB WHITE C-112-O is a glass fibre / Mineral reinforced Poly Butylene Terephthalate (PBT) compound, specially developed for LED light base component which demands zero light leakage when used in the base. It consists of a mixture of chopped strand glass fibres and/or 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 special white shade used in the industry for the specific application mentioned.

CATEGORY

- Glass fibre / mineral reinforced PBT composite
- KKALPALOX PBT 2G HB WHITE C-112-O 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 / light blockers 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 2G HB WHITE C-112-O is used directly for injection moulding of the base component in LED lights that demand zero light leakage and other useful components
- Many models of LED light base components use this grade

ADVANTAGES

- Balanced rigidity & toughness
- Excellent thermal, chemical & dimensional stability

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TECHNICAL SPECIFICATION

Properties	Test method	Unit	Typical value
Physical Properties			
Melt Flow Index @ 250° C/2.16 kg	ASTM D-1238	gm / 10min	28 ± 3
Specific Gravity	ASTM D-792	-	1.65 ± 0.02
Flammability			
Flammability @ 3.2mm thickness	DPIL Std based on UL-94	-	HB
Glow Wire Index	IEC-60695-2-12	°C	≥ 650
Mechanical Properties			
Notched Izod impact strength	ASTM D-256	Kg.cm/cm	5 ± 1
Tensile Strength at yield	ASTM D-638	Kg/cm ²	850 ± 50
Flexural strength	ASTM D-790	Kg/cm ²	1450 ± 100
Flexural Modulus	ASTM D-790	Kg/cm ²	65000 ± 1000

IM PROCESS PARAMETERS

Pre-Drying		
Temperature	°C	100 - 110
Time	Hours	2 - 3
Process Temperatures		
(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

Rev 12/23

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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CIN : U24290WB2020PLC241791