



KKALPALON PC XX WHITE C-199
EXTRUSION GRADE POLYCARBONATE WHITE COMPOUND

Technical Data Sheet

KKALPALON PC XX WHITE C-199 is a polycarbonate (PC) based extrusion grade pre-coloured white compound. It consists of thermally stable, superior grade proprietary pigment mix homogeneously dispersed in polycarbonate matrix. The rheology of the compound and allows easy processing at the process temperatures used for PC, all the while retaining its properties and colour in the final application.

CATEGORY

- Thermoplastic polycarbonate-based polymer composite
- KKALPALON PC XX WHITE C-199 is usable directly for extrusion of LED diffuser components

COMPOUNDING

Carefully chosen imported PC grades melt blended homogeneously in twin screw compounding system

- The multi-pigment mix and the special process additive package concluded by diligent research work of the R&D team is 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

- KKALPALON PC XX WHITE C-199 is used directly for extrusion of the white base of LED tube lights
- Variations of this grade are available with different shades of white and MFI to suit the demands of various designs used in LED segment
- In small dosage levels, this is also useful in enhancing the strength of injection moulding grades of pre-coloured PC whites or reprocessed PC whites

ADVANTAGES

- Thermally stable base polymer & pigment package
- Homogenous dispersion of pigments & additives
- Works with many standard LED diffuser components

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TECHNICAL SPECIFICATION

Properties	Test method	Unit	Typical value
Physical Properties			
Melt Flow Index @ 300° C/ 1.2 kgf	ASTM D-1238	gm / 10min	7 ± 2
Specific Gravity	ASTM D-792	-	1.25 ± 0.02
Thermal Properties			
Heat Deflection Temperature (1.8 Mpa / 3.2mm)	ASTM D-648	°C	125 ± 5
Flammability			
Flammability @ 3.2mm thickness	DPIL Std based on UL-94	-	V2
Glow Wire Index	IEC-60695-2-12	°C	≥ 650
Mechanical Properties			
Notched Izod impact strength	ASTM D-256	Kg.cm/cm	65 ± 5
Tensile Strength at yield	ASTM D-638	Kg/cm ²	650 ± 50
Flexural strength	ASTM D-790	Kg/cm ²	950 ± 100
Flexural Modulus	ASTM D-790	Kg/cm ²	23500 ± 1000

EXTRUSION PROCESS PARAMETERS

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

Process Temperatures		
Melt temperature	°C	280 - 320
Screw Speed	RPM	Low - medium

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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