



KKALPALON PC 3G
GLASS FIBRE REINFORCED POLYCARBONATE COMPOUND

Technical Data Sheet

KKALPALON PC 3G is a glass reinforced polycarbonate (PC) compound. It consists of around 30 weight% chopped strand glass fibres, compatibilized with the PC matrix by special coupling agent package. This is a thermally and dimensionally stable grade with balanced toughness and rigidity. This is offered in Natural and other colours.

CATEGORY

- Glass fibre reinforced polycarbonate composite
- KKALPALON PC 3G is usable directly for injection moulding

COMPOUNDING

- Carefully chosen imported PC grades melt blended homogeneously in twin screw compounding system
- Specially sized chopped strand glass fibres 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

- KKALPALON PC 3G is used directly for injection moulding of various useful components
- Many electrical, appliances, automotive, industrial and other segments use this grade for variety of components
- This grade is of immense use as metal replacement in many areas

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 |
|--|----------------------------|--------------------|---------------|
| Physical Properties | | | |
| Melt Flow Index @ 300° C/ 1.2 kgf | ASTM D-1238 | gm / 10min | 20 ± 2 |
| Specific Gravity | ASTM D-792 | - | 1.42 ± 0.02 |
| Thermal Properties | | | |
| Heat Deflection Temperature (1.8 Mpa / 3.2mm) | ASTM D-648 | °C | 150 ± 5 |
| Flammability | | | |
| Flammability @ 3.2mm thickness | DPIL Std based on UL-94 | - | NA |
| Glow Wire Index | IEC-60695-2-12 | °C | NA |
| Mechanical Properties | | | |
| Notched Izod impact strength | ASTM D-256 | Kg.cm/cm | 11 ± 2 |
| Tensile Strength at yield | ASTM D-638 | Kg/cm ² | 1000 ± 100 |
| Flexural strength | ASTM D-790 | Kg/cm ² | 1800 ± 100 |
| Flexural Modulus | ASTM D-790 | Kg/cm ² | 67000 ± 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 | 105 - 115 |
| Zone-1 | °C | 255 – 265 |
| Zone-2 | °C | 260– 270 |
| Zone-3 | °C | 265 – 275 |
| Nozzle | °C | 260 - 270 |
| Mould | °C | 90 - 100 |

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.

Ddev Plastiks Industries Limited

Surangl Works : Survey No. - 320/1/1/2/2, Village – Surangl, Chkhall Road, Silvassa – 396240
(Dadra and Nagar Haveli and Daman and Diu), Tel : +91 9909006402

Dadra Works : Survey No – 24/3, Village : Demn , Demni Road, Dadra, Silvassa - 396193, Tel : +91 9909006426

Daman Works : 168/151-158, Dabhel Industrial Co-operative Society Ltd., Dabhel, Daman - 396210, Tel: +91 9909006407

E-mail : ddndnh_gst@ddevgroup.in, www.ddevgroup.in

CIN : U24290WB2020PLC241791

Rev 12/23