

# 1100NK

Polypropylene Homopolymer / General Purpose Application

## PRODUCT DESCRIPTION

1100NK is a Polypropylene Homopolymer that may be used in a range of manufacturing processes such as injection molding for general purpose products.

### TYPICAL APPLICATION

- General Purpose Injection
- Food containers
- Toys
- Housewares
- Cap & Closures
- Multifilament fiber
- Electrical parts

### PRODUCT FEATURES

- Good stiffness
- Food contact & Toys safety
- Odorless

### COMPLIANCE

- FDA US 21 CFR 177.1520
- Commission Regulation (EU) No. 10/2011
- RoHS
- REACH
- EN 71-3: Safety of Toys
- UL Yellow Card: E132283
- HALAL

| PHYSICAL PROPERTIES                     | TEST METHOD | UNIT              | VALUE |
|---|-------------|-------------------|-------|
| Melt Flow Index (2.16 kg/230 °C)        | ASTM D1238  | g/10 min          | 11    |
| Density                                 | ASTM D792   | g/cm <sup>3</sup> | 0.90  |
| Tensile Strength at Yield               | ASTM D638   | MPa               | 36    |
| Elongation at Yield                     | ASTM D638   | %                 | 9     |
| Izod Notched Impact Strength (at 23 °C) | ASTM D256   | J/m               | 35    |
| Flexural Modulus (1% SECANT)            | ASTM D790   | MPa               | 1500  |
| Rockwell Hardness                       | ASTM D785   | R-Scale           | 107   |
| Heat Distortion Temperature (0.45 MPa)  | ASTM D648   | °C                | 110   |
| Flammability                            | UL-94       | -                 | HB    |

Remark: The values presented on the above are typical laboratory, not to be construed as specifications and may vary within moderate ranges. The applicability or the accuracy of this information or the suitability of our products cannot be guaranteed because the conditions of use on the part or our uses are beyond our control.

# 1100NK

Polypropylene Homopolymer / General Purpose Application

## PROCESSING TECHNIQUE

Cylinder Temperature: 190 - 240 °C  
Mold Temperature : 40 - 60 °C  
Injection Pressure : 30 - 80% of maximum pressure  
Holding Pressure : Relative to injection pressure  
Back Pressure : 0 - 20 of maximum pressure  
Injection Speed : Low to medium of maximum speed

\*However, the actual processing conditions depend on mold design, power of machine, equipment and other environments.

## PRODUCT PACKAGING

- 25 kg loose bag
- 25 kg stretch wrap on palletized
- 750 kg jumbo bag

For further information, contact the IRPC's Sales representative.

## STORAGE

Storage at ambient temperature preferably not higher than 38 °C (100 °F).

- Dry environment with the exclusion of contamination.
- Protection against direct sunlight, radiation and artificial light containing UV-Radiation.
- Protection from ozone-generating electrical devices.
- Under these optimal conditions, the physical properties of resins should remain stable with the exception of the yellowness index which is expected to increase over time.

More information provide in safety data sheet.

## SAFETY

This product is not classified as hazardous material for more information please refer to safety data sheet.

## RECYCLING

It is an undisputed fact that the product can be recycled or disposed of without any problem.