

# 1102K

## Polypropylene (PP)

### Description:

1102K is a Polypropylene Homo-polymer resin for extrusion process with the characteristic of good stiffness and good impact. It is suitable for mono-filament and yarn, too. It also meets the F.D.A. requirement in the code of federal regulations in 21 CFR 177.1520 for food contact.

### Typical applications:

Mono-filament / Yarn : rope, stretch tape, coarse textile for woven bag and tarpaulin  
Extrusion : straw, sheet, industrial board

Physical Properties:	Method	Unit	Value
Melt Flow Index (2.16 kg/230°C)	ASTM D1238	g/10min.	4
Tensile Strength at Yield	ASTM D638	N/mm <sup>2</sup>	37
Elongation at Yield	ASTM D638	%	27
Charpy Notched Impact Strength (at 23°C)	DIN 53453	mJ/mm <sup>2</sup>	4.5
Flexural Modulus (1% SECANT)	ASTM D790	MPa	1600
Rockwell Hardness	ASTM D785	R-Scale	107
Heat Distortion Temperature (Load 0.45 N/MM <sup>2</sup> )	ASTM D 648	°C	110

### Processing Technique

**Processing Temperature : 200 – 280 °C**

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

**Remark:** The values presented on the above are typical laboratory average, 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.