

# 1100RC

## Polypropylene (PP)

### Description:

1100RC is a Polypropylene Homo-polymer with the characteristic of high flow, good stiffness and good process ability for injection molding process, extrusion coating and multi-filament. It is suitable for the production of complex part, long path and thin wall. It also meets the F.D.A. requirement in the code of federal regulations in 21 CFR 177.1520 for food contact.

### Typical applications;

Injection Molding : house-ware, thin wall product, food container.  
 Multi-filament : belt, fiber for carpet  
 Extrusion Coating : coating film of woven bag, tarpaulin

Physical Properties:	Method	Unit	Value
<b>Melt Flow Index (2.16 kg/230°C)</b>	ASTM D1238	g/10min.	20
<b>Tensile Strength at Yield</b>	ASTM D638	N/mm <sup>2</sup>	36
<b>Elongation at Yield</b>	ASTM D638	%	26
<b>Charpy Notched Impact Strength (at 23°C)</b>	DIN 53453	mJ/mm <sup>2</sup>	2.4
<b>Flexural Modulus (1% SECANT)</b>	ASTM D790	MPa	1500
<b>Rockwell Hardness</b>	ASTM D785	R-Scale	107
<b>Heat Distortion Temperature (Load 0.45 N/MM<sup>2</sup>)</b>	ASTM D 648	°C	110

### Processing Technique

#### Processing Temperature;

Injection, Multi-filament: 200 – 240 °C  
 Extrusion Coating : 240 – 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.