

# 1111R

## Polypropylene (PP)

### Description:

1111R is a Polypropylene Homo-polymer resin for injection molding process with the characteristic of high flow, high stiffness and heat stability. It is suitable for the production of complex part, long path and thin wall. Typical applications are electrical appliances and automotive parts. It also meets the F.D.A. requirement in the code of federal regulations in 21 CFR 177.1520 for food contact.

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>	40
<b>Elongation at Yield</b>	ASTM D638	%	22
<b>Charpy Notched Impact Strength (at 23°C)</b>	DIN 53453	mJ/mm <sup>2</sup>	2.3
<b>Flexural Modulus (1% SECANT)</b>	ASTM D790	MPa	1850
<b>Rockwell Hardness</b>	ASTM D785	R-Scale	112
<b>Heat Distortion Temperature (Load 0.45 N/MM<sup>2</sup>)</b>	ASTM D 648	°C	129

### Processing Technique

**Processing Temperature : 190 – 240 °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