

## **POLYPROPYLENE**

<b>Common Abbreviation:</b>	<b>PP</b>
<b>Full Name:</b>	Polypropylene
<b>Recycling Code:</b>	5
<b>Moulding Methods:</b>	Injection, Blow, Extrusion, Rotary
<b>Recommended Temp. Range:</b>	-0°C to +130°C
<b>Structural Strength:</b>	Excellent Injection moulded
<b>Impact Resistance:</b>	Good
<b>Identification:</b>	Hard surface which can't be scratched with fingernail. Shaving burns with no smoke drips like a candle, smells of burnt oil.
<b>Joining or Repair Methods:</b>	Plastic Welding
<b>Related Materials:</b>	PP Co-polymer has 4% HDPE added and increases lower Temperature range to -40°C

### **General Comments:**

Excellent abrasion resistance. Can be used in autoclaves. Used for Carton tape, and strapping, crates, buckets, bottles, laboratory wares. 300 litre to 500 litre high temperature tanks.

### **Recycle applications Industrial:**

Most manufacturers of products would recycle all reject items and off cut materials by granulating the material and then re-extrude or remould as the material loses none of its physical properties.

### **Recycle applications Domestic:**

Unfortunately very little is recovered in N.Z. although the material is infinitely suitable for the manufacture of such items as Battery cases, pegs and many more.