

# POLYPROPYLENE

## Y101

### Polypropylene Homopolymer for injection molding application

#### Description

Y101 is a polypropylene homopolymer intended for injection molding applications. Molded parts made from this resin exhibit high stiffness, good heat resistance and good flow characteristic.

#### Applications

- General purpose
- Housewares

Resin Properties	Unit	Test Method	Typical Value
MFR (230°C/2.16Kg)	g/10min	ASTM D1238	15
Density	g/cm <sup>3</sup>	ASTM D792 Method A	0.9
Mechanical Properties*			
Tensile Strength at Yield	MPa	ASTM D638	34
Tensile Strength at Break	MPa	ASTM D638	28
Flexural Modulus	MPa	ASTM D790	1700
Izod Impact, Notched 23 °C	kJ/m <sup>2</sup>	ASTM D256	2.0
Rockwell Hardness-R		ASTM D785	105
Thermal Properties*			
Vicat Softening Temperature @10N	°C	ASTM D1525	158
Heat Deflection 0.45MPa	°C	ASTM D648	116
Other			
Shrinkage MD/TD	%	SUMIKA	1.2/1.2
Flammability		UL94	HB

\*Test specimen preparation Method: Pursuant to ASTM D4101

**Processing conditions:** Recommended melt temperature: 160 – 240 °C

**Storage and handling:** Y101 should be stored in a dry cool place with adequate ventilation and protected from UV-light at temperature below 50 °C. It is advisable to process polypropylene resins within 6 months after delivery.

**Food Contact Compliance and other Regulations:** Please visit Petro Rabigh website.