

# POLYPROPYLENE

## AV161

### Polypropylene Block Copolymer for injection molding application

#### Description

AV161 is a polypropylene block copolymer formulated with nucleating agent and intended for general-purpose injection molding. Injection molding parts made from this resin exhibit high impact and high stiffness.

#### Applications

- Commodities
- Batteries
- Containers
- Chair bases
- Seat bases

Resin Properties	Unit	Test Method	Typical Value
MFR (230°C/2.16Kg)	g/10min	ASTM D1238	5.5
Density	g/cm <sup>3</sup>	ASTM D792 Method A	0.9
Mechanical Properties*			
Tensile Strength at Yield	MPa	ASTM D638	25
Tensile Strength at Break	MPa	ASTM D638	13
Flexural Modulus	MPa	ASTM D790	1170
Izod Impact, Notched 23 °C	kJ/m <sup>2</sup>	ASTM D256	10
Izod Impact, Notched -20 °C	kJ/m <sup>2</sup>	ASTM D256	4.0
Rockwell Hardness-R		ASTM D785	90
Thermal Properties*			
Vicat Softening Temperature @10N	°C	ASTM D1525	154
Heat Deflection 0.45MPa	°C	ASTM D648	106
Other			
Shrinkage MD/TD	%	SUMIKA	1.4/1.4
Flammability		UL94	HB

\*Test specimen preparation Method: Pursuant to ASTM D4101

**Processing conditions:** Recommended melt temperature: 190 – 230 °C

**Storage and handling:** AV161 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.