

# POLYPROPYLENE

## AV161

### Block Copolymer Polypropylene for Injection Molding Application

#### Description

AV161 is a block copolymer polypropylene intended for general-purpose injection molding. It has an excellent combination of properties and processability. Injection molding parts made from this resin exhibits excellent high impact and high stiffness.

#### Applications

- Commodity
- Battery
- Containers
- Chairs
- Seat Bottom

|            |                                       | Unit              | ASTM   | Value   |
|------------|---------------------------------------|-------------------|--------|---------|
| Physical   | MFR @ 2.16kg, 230 deg.C               | g/10min           | D-1238 | 5       |
|            | Density                               | g/cm <sup>3</sup> | D-792A | 0.9     |
| Mechanical | Tensile Strength at Yield             | MPa               | D-638  | 28      |
|            | Tensile Strength at Break             | MPa               | D-638  | 22      |
|            | Tensile Elongation at Break           | %                 | D-638  | 660     |
|            | Flexural Modulus                      | MPa               | D-790  | 1090    |
|            | Izod Impact, Notched @ 23deg.C        | kJ/m <sup>2</sup> | D-256  | 9.2     |
|            | Izod Impact, Notched @ -20deg.C       | kJ/m <sup>2</sup> | D-256  | 4.0     |
|            | Rockwell Hardness-R                   |                   | D-785  | 88      |
| Thermal    | Vicat Softening Temperature, Method A | deg.C             | D-1525 | 153     |
|            | Heat Deflection @ 0.45MPa             | deg.C             | D-648  | 114     |
| Other      | Shrinkage MD/TD                       | %                 | sumika | 1.3/1.4 |

**Processing conditions:** Recommended melt temperature: 180 – 240 degree 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.

**Food Contact Compliance:** Please contact Petro Rabigh.