

Product Data Sheet

SUMITOMO POLYPROPYLENE COPOLYMER AV161

Block Copolymer, Injection Molding

Applications For general purpose applications such as housewares, furniture, battery cases, crates, containers, chairs, toys, detergent pails, etc.

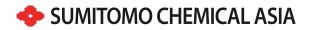
Characteristics Formulated with nucleating agent, articles produced possess high impact strength, high stiffness and high heat stability.

Melt temperature : 190 - 230 °C **Typical Processing Conditions**

Typical Properties

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|-----------------------------|--------------------|------------------|-------------------|-------------|
| Physical | | Value | Unit | Method |
| Melt Flow Rate | 230 °C, 2.16 kg | 5.5 | g/10min | ASTM D1238 |
| Density | | 0.9 | g/cm ³ | ASTM D792-A |
| Mechanical | | Value | Unit | Method |
| Tensile Strength | at Yield | 25 | MPa | ASTM D638 |
| | at Break | 13 | MPa | ASTM D638 |
| Flexural Modulus | $\cap \mathcal{V}$ | 1170 | MPa | ASTM D790 |
| Izod Impact, Notched | 23 °C | 10 | kJ/m² | ASTM D256 |
| | -20 °C | 4 | kJ/m² | ASTM D256 |
| Rockwell Hardness | / | 90 | | ASTM D785 |
| Thermal | | Value | Unit | Method |
| Vicat Softening Temperature | 10 N | 154 | °C | ASTM D1525 |
| Heat Deflection Temperature | 0.45 MPa | 106 | °C | ASTM D648 |
| Other | | Value | Unit | Method |
| Shrinkage | MD / TD | 1.4 / 1.4 | % | Sumika |
| Flammability | | HB | | UL 94 |

The values shown are typical values measured on the product and are not to be considered as guaranteed specifications; actual test results may vary. Test specimen preparation conditions : as per ASTM D4101



Manufacturer

AV161 is manufactured in Saudi Arabia by Rabigh Refining & Petrochemical Co. (Petro Rabigh). Petro Rabigh is an ISO 9001, ISO 14001 and OHSAS 18001 certified company.

Food Contact Application

Unmodified AV161 complies with the requirements of :

- US FDA Regulation 21 CFR 177.1520 and its amendments
- Regulation (EC) 1935/2004/EC (Framework), EU Commission Regulation 10/2011 (PIM), Commission Regulation (EC) No. 2023/2006 (GMP) and their respective amendments
- Please contact your nearest SCA representative for more information.

Restriction of Hazardous Substances

The substances regulated under EU Directive 2011/65/EC and its amendment on RoHS in electrical and electronic equipment, are not used in the manufacturing process of AV161 and are therefore not expected to be present.

Storage and Handling

AV161 is supplied in 25 kg bags or in bulk containers depending on packaging options available for different markets. It is advisable to store in a well ventilated storage facility, protected from rain, direct exposure to sunlight, temperature and dust.

Moisture may accumulate inside the packaging if there is a significant fluctuation in ambient temperature and high relative humidity. If this occurs, customer is strongly advised to dry the resin prior to use. Direct exposure to sunlight and excessive ambient temperature may affect the properties, appearance and odor characteristic of the resin.

It is recommended to process AV161 within six months upon receipt.

Please refer to the Safety Data Sheet (SDS) for information regarding industrial health and safety issues.

Disposal and the Environment

SCA prioritizes environmental management in all our operations in responsibility and respect towards the community and the environment.

Unmodified AV161 is readily recyclable, both for reuse via reprocessing and for energy reclamation through incineration. If disposed in landfills, our products, which are inert materials, do not pose pollution risks since they do not generate gaseous or liquid emissions.

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