

Provisional Product Data Sheet

SUMITOMO PROPYLENE COPOLYMER

AV161

Block Copolymer, Injection

Applications	For general purpose applications such as houseware, furniture, battery cases, crates, containers, chair, toys, and detergent pails, etc.
Characteristics	Medium flow, high impact, high stiffness, and high heat stability.
Typical Processing Conditions	Temperature 190 – 230°C Mold Temperature 30°C

Typical Properties

Physical		Value	Unit	Method
Melt Flow Rate	2.16kg	5.5	g/10min	ASTM D1238
Density		0.900	g/cm ³	ASTM D792-A
Mechanical		Value	Unit	Method
Tensile Strength	at Yield	28	MPa	ASTM D638
	at Break	22	MPa	ASTM D638
Tensile Elongation	at Break	660	%	ASTM D638
Flexural Modulus		1100	MPa	ASTM D790A
Izod Impact, Notched	23°C	9	kJ/m ²	ASTM D256
	-20°C	4	kJ/m ²	ASTM D256
Rockwell Hardness		88		ASTM D785
Thermal		Value	Unit	Method
Vicat Softening Temperature	50N	66	°C	ASTM D1525B
Heat Deflection Temperature	0.45MPa	114	°C	ASTM D648
Other		Value	Unit	Method
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 pieces preparation condition injection molding, nozzle temperature 220°C, mold temperature 50°C.

Manufacturer

AV161 is manufactured in Saudi Arabia by Rabigh Refining & Petrochemical Co. (Petro Rabigh).

Food Contact Application

Unmodified AV161 is expected to comply with the US FDA Regulation 21 CFR 177.1520 for use in direct contact with food. Please contact your nearest SCA representative for more information.

Restriction of Hazardous Substances

The substances regulated under EU Directive 2002/95/EC 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 25kg 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.

Please refer to the Material Safety Data Sheet (MSDS) 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 world around us.

Unmodified, our polypropylene and polyethylene products are 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.

Office Locations**SUMITOMO CHEMICAL ASIA PTE LTD**

150 Beach Road #18-05/08 Gateway West SINGAPORE 189720

Phone +65 63035188

Fax +65 62989621

Web Site www.sca.com.sg

SUMITOMO CHEMICAL ASIA PTE LTD

Vietnam Representative Office, 7th Floor, Unit 701-3, Me Linh Point Tower, 2 Ngo Duc Ke Street, Dist. 01, Ho Chi Minh City VIETNAM

Phone +84 8 35202767

Fax +84 8 35202911

SUMIKA PLASTICS AND CHEMICALS TRADING (SHANGHAI) CO., LTD.

Unit 46-07 Grand Gateway II, No.3 Hongqiao Road, Xu Hui District, Shanghai CHINA 200030

Phone +86 21 64482255

Fax +86 21 64077365

SUMIKA PLASTICS AND CHEMICALS TRADING (SHANGHAI) CO., LTD.

Unit 12E-2 Block C Peace Square, Shenghe Road, Nancheng District, Dongguan, Guangdong CHINA 523071

Phone +86 769 22887316

Fax +86 769 22887885

SCA SOUTH ASIA PETROCHEMICALS PRIVATE LIMITED

Sethi Chambers, Plot No.2, D.D.A. Local Shopping Centre, 2nd Floor, M.O.R. Land, New Rajinder Nagar, New Delhi, INDIA 110060

Phone +91 11 2874 1571

Fax: +91 11 2874 1565

SUMITOMO CHEMICAL EUROPE S.A./N.V.

Woluwelaan, 57, B-1830 Machelen BELGIUM

Phone +32 2 2548799

Fax +32 2 2512991

Web Site www.sumitomo-chem.be

SUMITOMO CHEMICAL EUROPE N.V.

Turkey Liaison Office, Fatih Sultan Mehmet Cad. Yayabeyi Sok. Ilayda Is Mrk, No.12/2, 34810 Kavacik, Beykoz - Istanbul - TURKEY

Phone +90 216 680 3334

Fax: +90 216 680 1012

Disclaimer

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