SUMITOMO CHEMICAL ASIA

Product Data Sheet

SUMITOMO POLYPROPYLENE COPOLYMER

AV161

Block Copolymer, Injection Molding

Applications	For general purpose applications such as housewares, furnitures, battery cases, crates, containers, chairs, toys, and detergent pails, etc.
Characteristics	Medium flow, high impact, high stiffness, and high heat stability.
Typical Processing Conditions	Extrusion temperature : 190°C - 230°C Mold temperature : 20°C - 70°C

Typical Properties

Physical		Value	Unit	Method
Melt Flow Rate	2.16kg	5	g/10min	ASTM D1238
Density		0.900	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		1170	MPa	ASTM D790
Izod Impact, Notched	23°C	10	kJ/m^2	ASTM D256
	-20°C	4	kJ/m^2	ASTM D256
Rockwell Hardness		90		ASTM D785
Thermal		**Value**	**Unit**	**Method**
Vicat Softening Temperature	10N	154	°C	ASTM D1525
Heat Deflection Temperature	0.45MPa	106	°C	ASTM D648
Other		**Value**	**Unit**	**Method**
Shrinkage	MD / TD	1.4 / 1.4		Sumika
Flamability		HB		UL94

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 : 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

Please contact your nearest SCA representative for more information.

Restriction of Hazardous Substances
The substances regulated under EU Directive 2011/65/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 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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