

Product Data Sheet

SUMITOMO POLYAMIDE

S2700

Polyamide-6, Medium Viscosity

Applications Engineering plastics compound and high tenacity filament / yarn.

Characteristics Medium viscosity. Contains no lubrication.

Typical Processing Conditions Extrusion temperature : 240°C - 300°C

Typical Properties

Physical		Value	Unit	Method
Relative Viscosity		2.70	-	ISO 307
Density		1.12	g/cm ³	ASTM D792
Water Content		< 0.06	wt%	ASTM D6869
Water Absorption	23°C in water	11.1	%	ISO 62
Extractable Content		< 0.6	wt%	Internal
Amino End Group		35 - 45	meq/kg	Internal
Chip Count		70 - 110	pcs/g	Internal
Mechanical		Value (Dry)	Unit	Method
Tensile Strength	at Yield	82	MPa	ASTM D638
Tensile Elongation	at Yield	4	%	ASTM D638
	at Break	16	%	ASTM D638
Tensile Modulus		2650	MPa	ASTM D638
Flexural Strength		107	MPa	ASTM D790
Flexural Modulus		2650	MPa	ASTM D790
Impact Strength, Izod	notched, 23°C	5	kJ/m ²	ASTM D256
Hardness	R Scale	119	-	ASTM D785-03
Thermal		Value	Unit	Method
Heat Deflection Temperature	1.80MPa	58	°C	ASTM D648
Melting Temperature		219	°C	ASTM D3418
Other		Value	Unit	Method
UL Flammability		HB	-	UL94/1.6mm

The values shown are typical values measured on the product and are not to be considered as guaranteed specifications, actual test results may vary
RV measured using 1% (w/v) in 96% (w/w) sulfuric acid

Manufacturer

S2700 is manufactured in Saudi Arabia by Rabigh Refining & Petrochemical Co. (Petro Rabigh). Petro Rabigh is an ISO 9001, ISO 14001, and ISO 45001 certified company.

Regulatory Compliances

Unmodified S2700 complies with the requirements of,

- US FDA Regulation 21 CFR 177.1500 and its amendments
- EU Commission Regulation 10/2011 (PIM) 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, and its amendments, on RoHS in electrical and electronic equipment are not used in the manufacturing process, and are therefore not expected to be present in the product.

Storage and Handling

S2700 is supplied pre-dried in moisture-proof 25kg bags or 730kg jumbo bags with aluminium liner. 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 odour characteristic of the resin.

It is recommended to process S2700 within 6 months upon receipt.

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

Disposal and the Environment

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

Disposal of S2700 should at all times comply with the local and regional environmental protection and waste disposal regulations.

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