

Product Data Sheet

SUMITOMO POLYAMIDE

S2700

Polyamide-6, Medium Viscosity

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| 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 | | 2.7 | - | 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 | | 40 | meq/kg | Internal |
| Chip Count | | 70 - 110 | pcs/g | Internal |
| Mechanical | | Value | 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 |
| Thermal | | Value | Unit | Method |
| Heat Deflection Temperature | 1.80MPa | 58 | °C | ASTM D648 |
| Melting Temperature | | 219 | °C | ASTM D3418 |
| Other | | Value | Unit | Method |
| Hardness | R Scale | 119 | - | ASTM D785-03 |

The values shown are typical values measured on the product and are not to be considered as guaranteed specifications, actual test results may vary

Manufacturer

S2700 is manufactured in Saudi Arabia by Rabigh Refining & Petrochemical Co. (Petro Rabigh).

The certification on ISO 9001, ISO 14001, and OHSAS 18001 is in progress and will be completed soon after commercial production.

Regulatory Compliances

Evaluation on common regulatory compliances on S2700 will be verified by accredited third party laboratories soon after commercial production.

Please contact your nearest SCA representative for more information.

Storage and Handling

S2700 is supplied pre-dried in moisture-proof 25kg bags or 650kg 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. 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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