

# Product Data Sheet & General Processing Conditions

## RTP 501 Styrene Acrylonitrile (SAN) Glass Fiber

### PROPERTIES & AVERAGE VALUES OF INJECTION MOLDED SPECIMENS

|                                   |                       |               | ASTM   |
|-----------------------------------|-----------------------|---------------|--------|
| PERMANENCE                        | English               | SI Metric     | TEST   |
| Primary Additive                  | 10 %                  | 10 %          |        |
| Specific Gravity                  | 1.14                  | 1.14          | D 792  |
| Molding Shrinkage                 |                       |               |        |
| 1/8 in (3.2 mm) section           | 0.0020 - 0.0040 in/in | 0.20 - 0.40 % | D 955  |
| MECHANICAL                        |                       |               |        |
| Impact Strength, Izod             |                       |               |        |
| notched 1/8 in (3.2 mm) section   | 0.8 ft-lbs/in         | 43 J/m        | D 256  |
| unnotched 1/8 in (3.2 mm) section | 5.0 ft-lbs/in         | 267 J/m       | D 4812 |
| Tensile Strength                  | 12000 psi             | 83 MPa        | D 638  |
| Tensile Elongation                | 1.0 - 2.0 %           | 1.0 - 2.0 %   | D 638  |
| Tensile Modulus                   | 0.85 x 10^6 psi       | 5861 MPa      | D 638  |
| Flexural Strength                 | 19000 psi             | 131 MPa       | D 790  |
| Flexural Modulus                  | 0.80 x 10^6 psi       | 5516 MPa      | D 790  |
| THERMAL                           |                       |               |        |
| Ignition Resistance*              |                       |               |        |
| Flammability**                    | HB @ 1/16 in          | HB @ 1.5 mm   | D 635  |
|                                   |                       |               |        |

## PROPERTY NOTES

Data herein is typical and not to be construed as specifications.

Unless otherwise specified, all data listed is for natural or black colored materials. Pigments can affect properties.

#### **GENERAL PROCESSING FOR INJECTION MOLDING**

| English           | SI Metric   |
|-------------------|---|
| 10000 - 15000 psi | 69 - 103 MPa                                      |
| 460 - 535 °F      | 238 - 279 °C                                      |
| 125 - 180 °F      | 52 - 82 °C  |
| 2 hrs @ 180 °F    | 2 hrs @ 82 °C                                     |
|                   | 10000 - 15000 psi<br>460 - 535 °F<br>125 - 180 °F |

# PROCESSING NOTES

Desiccant Type Dryer Required.

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This information is intended to be used only as a guideline for designers and processors of modified thermoplastics. Because design and processing is complex, a set solution will not solve all problems. Observation on a "trial and error" basis may be required to achieve desired results.

Data are obtained from specimens molded under carefully controlled conditions from representative samples of the compound described herein.

Properties may be materially affected by molding techniques applied and by the size and shape of the item molded. No assurance can be implied that all molded articles will have the same properties as those listed.

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<sup>\*</sup> This rating is not intended to reflect hazards of this or any other material under actual fire conditions.

<sup>\*\*</sup> Values per RTP Company testing.

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