



Product Data Sheet & General Processing Conditions

RTP 200 A MS 2 Nylon 6 (PA) Molybdenum Disulfide

PROPERTIES & AVERAGE VALUES OF INJECTION MOLDED SPECIMENS

| PERMANENCE | English | SI Metric | ASTM TEST |
|--|-----------------------|---------------|-----------|
| Specific Gravity | 1.15 | 1.15 | D 792 |
| Molding Shrinkage 1/8 in (3.2 mm) section | 0.0100 - 0.0150 in/in | 1.00 - 1.50 % | D 955 |

MECHANICAL

| | | | |
|--|----------------------------|----------|--------|
| Impact Strength, Izod notched 1/8 in (3.2 mm) section | 0.9 ft-lbs/in | 48 J/m | D 256 |
| unnotched 1/8 in (3.2 mm) section | No Break | No Break | D 4812 |
| Tensile Strength | 10500 psi | 72 MPa | D 638 |
| Tensile Elongation | > 10.0 % | > 10.0 % | D 638 |
| Tensile Modulus | 0.50 x 10 ⁶ psi | 3448 MPa | D 638 |
| Flexural Strength | 16500 psi | 114 MPa | D 790 |
| Flexural Modulus | 0.45 x 10 ⁶ psi | 3103 MPa | D 790 |

ELECTRICAL

| | | | |
|--------------------|---------------|---------------|-------|
| Volume Resistivity | > 1E14 ohm.cm | > 1E14 ohm.cm | D 257 |
|--------------------|---------------|---------------|-------|

THERMAL

| | | | |
|--|--------------|-------------|-------|
| Deflection Temperature @ 264 psi (1820 kPa) | 160 °F | 71 °C | D 648 |
| 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.

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

** Values per RTP Company testing.

GENERAL PROCESSING FOR INJECTION MOLDING

| | English | SI Metric |
|--------------------|-------------------|---------------|
| Injection Pressure | 10000 - 15000 psi | 69 - 103 MPa |
| Melt Temperature | 470 - 535 °F | 243 - 279 °C |
| Mold Temperature | 130 - 200 °F | 54 - 93 °C |
| Drying | 2 hrs @ 180 °F | 2 hrs @ 82 °C |
| Moisture Content | 0.20 % | 0.20 % |
| Dew Point | 0 °F | -18 °C |

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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