



Product Data Sheet & General Processing Conditions

RTP 207 G HS L
Nylon 4/6 (PA)
Glass Fiber
Heat Stabilized
Lubricated
Dry As Molded

PROPERTIES & AVERAGE VALUES OF INJECTION MOLDED SPECIMENS

| PERMANENCE | English | SI Metric | ASTM TEST |
|--|--------------|-----------|-----------|
| Primary Additive | 40 % | 40 % | |
| Specific Gravity | 1.51 | 1.51 | D 792 |
| Molding Shrinkage 1/8 in (3.2 mm) section | 0.0040 in/in | 0.40 % | D 955 |

MECHANICAL

| | | | |
|--|----------------------------|-----------|--------|
| Impact Strength, Izod notched 1/8 in (3.2 mm) section | 1.9 ft-lbs/in | 101 J/m | D 256 |
| unnotched 1/8 in (3.2 mm) section | 20.0 ft-lbs/in | 1068 J/m | D 4812 |
| Tensile Strength | 31000 psi | 214 MPa | D 638 |
| Tensile Elongation | 3.0 % | 3.0 % | D 638 |
| Tensile Modulus | 1.80 x 10 ⁶ psi | 12411 MPa | D 638 |
| Flexural Strength | 47250 psi | 326 MPa | D 790 |
| Flexural Modulus | 1.70 x 10 ⁶ psi | 11722 MPa | D 790 |

ELECTRICAL

| | | | |
|--------------------|---------------|---------------|-------|
| Volume Resistivity | > 1E12 ohm.cm | > 1E12 ohm.cm | D 257 |
|--------------------|---------------|---------------|-------|

THERMAL

| | | | |
|--|--------|--------|-------|
| Deflection Temperature @ 264 psi (1820 kPa) | 545 °F | 285 °C | D 648 |
|--|--------|--------|-------|

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 |
|--------------------|-------------------|----------------|
| Injection Pressure | 10000 - 15000 psi | 69 - 103 MPa |
| Melt Temperature | 560 - 620 °F | 293 - 327 °C |
| Mold Temperature | 175 - 300 °F | 79 - 149 °C |
| Drying | 4 hrs @ 250 °F | 4 hrs @ 121 °C |
| Moisture Content | 0.05 % | 0.05 % |
| Dew Point | -40 °F | -40 °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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RTP COMPANY • 580 EAST FRONT STREET • WINONA, MN 55987 • 507-454-6900