

(+) 18816996168

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**Product Data Sheet &  
General Processing Conditions**

**RTP 200 A HS MS  
Nylon 6 (PA)  
Molybdenum Disulfide  
Heat Stabilized**

**PROPERTIES & AVERAGE VALUES OF INJECTION MOLDED SPECIMENS**

| PERMANENCE                                   | English               | SI Metric     | ASTM<br>TEST |
|----------------------------------------------|-----------------------|---------------|--------------|
| Specific Gravity                             | 1.17                  | 1.17          | D 792        |
| Molding Shrinkage<br>1/8 in (3.2 mm) section | 0.0080 - 0.0200 in/in | 0.80 - 2.00 % | D 955        |

**MECHANICAL**

|                                                          |                            |          |        |
|----------------------------------------------------------|----------------------------|----------|--------|
| Impact Strength, Izod<br>notched 1/8 in (3.2 mm) section | 0.6 ft-lbs/in              | 32 J/m   | D 256  |
| unnotched 1/8 in (3.2 mm) section                        | 26.0 ft-lbs/in             | 1388 J/m | D 4812 |
| Tensile Strength                                         | 11500 psi                  | 79 MPa   | D 638  |
| Tensile Elongation                                       | > 10.0 %                   | > 10.0 % | D 638  |
| Tensile Modulus                                          | 0.55 x 10 <sup>6</sup> psi | 3792 MPa | D 638  |
| Flexural Strength                                        | 16500 psi                  | 114 MPa  | D 790  |
| Flexural Modulus                                         | 0.48 x 10 <sup>6</sup> psi | 3310 MPa | D 790  |

**THERMAL**

|                                                |              |             |       |
|------------------------------------------------|--------------|-------------|-------|
| Deflection Temperature<br>@ 264 psi (1820 kPa) | 175 °F       | 79 °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.