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## Product Data Sheet & General Processing Conditions

### RTP 1300 AR 15 TFE 15 SI 2 Polyphenylene Sulfide (PPS) Aramid Fiber Reinforced PTFE & Silicone Lubricated

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

| PERMANENCE                                   | English      | SI Metric | ASTM<br>TEST |
|----------------------------------------------|--------------|-----------|--------------|
| Primary Additive                             | 15 %         | 15 %      |              |
| Specific Gravity                             | 1.43         | 1.43      | D 792        |
| Molding Shrinkage<br>1/8 in (3.2 mm) section | 0.0060 in/in | 0.60 %    | D 955        |

#### MECHANICAL

|                                                          |                            |             |        |
|----------------------------------------------------------|----------------------------|-------------|--------|
| Impact Strength, Izod<br>notched 1/8 in (3.2 mm) section | 0.4 ft-lbs/in              | 21 J/m      | D 256  |
| unnotched 1/8 in (3.2 mm) section                        | 2.5 ft-lbs/in              | 133 J/m     | D 4812 |
| Tensile Strength                                         | 8000 psi                   | 55 MPa      | D 638  |
| Tensile Elongation                                       | 1.0 - 2.0 %                | 1.0 - 2.0 % | D 638  |
| Tensile Modulus                                          | 0.75 x 10 <sup>6</sup> psi | 5171 MPa    | D 638  |
| Flexural Strength                                        | 13000 psi                  | 90 MPa      | D 790  |
| Flexural Modulus                                         | 0.70 x 10 <sup>6</sup> psi | 4826 MPa    | D 790  |

#### THERMAL

|                                                |               |              |        |
|------------------------------------------------|---------------|--------------|--------|
| Deflection Temperature<br>@ 264 psi (1820 kPa) | 360 °F        | 182 °C       | D 648  |
| Ignition Resistance*<br>Flammability**         | V-0 @ 1/16 in | V-0 @ 1.5 mm | D 3801 |

#### 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   | 585 - 625 °F      | 307 - 329 °C   |
| Mold Temperature   | 275 - 350 °F      | 135 - 177 °C   |
| Drying             | 6 hrs @ 300 °F    | 6 hrs @ 149 °C |
| Moisture Content   | 0.04 %            | 0.04 %         |