



**Product Data Sheet &  
General Processing Conditions**

**RTP 1300 D AR 15 TFE 15  
Polyphenylene Sulfide (PPS)  
Aramid Fiber  
PTFE Lubricated**

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

<b>PERMANENCE</b>	<b>English</b>	<b>SI Metric</b>	<b>ASTM TEST</b>
Specific Gravity	1.45	1.45	D 792
Molding Shrinkage 1/8 in (3.2 mm) section	0.0060 in/in	0.60 %	D 955
<b>MECHANICAL</b>			
Impact Strength, Izod notched 1/8 in (3.2 mm) section	0.5 ft-lbs/in	27 J/m	D 256
unnotched 1/8 in (3.2 mm) section	4.0 ft-lbs/in	214 J/m	D 4812
Tensile Strength	9500 psi	66 MPa	D 638
Tensile Elongation	1.8 %	1.8 %	D 638
Tensile Modulus	0.80 x 10 <sup>6</sup> psi	5516 MPa	D 638
Flexural Strength	15000 psi	103 MPa	D 790
Flexural Modulus	0.70 x 10 <sup>6</sup> psi	4826 MPa	D 790
<b>THERMAL</b>			
Deflection Temperature @ 264 psi (1820 kPa)	316 °F	158 °C	D 648
@ 66 psi (455 kPa)	495 °F	257 °C	D 648
Ignition Resistance* Flammability**	V-0 @ 1/16 in	V-0 @ 1.5 mm	D 3801
Coefficient of Linear Thermal Expansion Flow Direction	1.9 x 10 <sup>-5</sup> /°F	3.5 x 10 <sup>-5</sup> /°C	E 831
Transverse Direction	3.2 x 10 <sup>-5</sup> /°F	5.7 x 10 <sup>-5</sup> /°C	E 831

**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**

	<b>English</b>	<b>SI Metric</b>
Injection Pressure	10000 - 15000 psi	69 - 103 MPa
Melt Temperature	575 - 650 °F	302 - 343 °C
Mold Temperature	150 - 350 °F	66 - 177 °C
Drying	6 hrs @ 300 °F	6 hrs @ 149 °C