



**Product Data Sheet &  
General Processing Conditions**

**RTP 299 A X 149451 A  
Nylon 6 (PA)  
Glass Fiber  
Flame Retardant  
Low Heat Release  
Low Smoke**

This product has been formulated for applications that require compliance to the UL2043 standard for "Discrete Products and Their Accessories Installed in Air-Handling Spaces"

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

<b>PERMANENCE</b>	<b>English</b>	<b>SI Metric</b>	<b>ASTM TEST</b>
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Molding Shrinkage 1/8 in (3.2 mm) section	0.0020 - 0.0040 in/in	0.20 - 0.40 %	D 955
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**MECHANICAL**

Impact Strength, Izod notched 1/8 in (3.2 mm) section	2.2 ft-lbs/in	117 J/m	D 256
unnotched 1/8 in (3.2 mm) section	17.0 ft-lbs/in	908 J/m	D 4812
Tensile Strength	19000 psi	131 MPa	D 638
Tensile Elongation	3.0 - 4.0 %	3.0 - 4.0 %	D 638
Tensile Modulus	1.50 x 10 <sup>6</sup> psi	10342 MPa	D 638
Flexural Strength	33000 psi	228 MPa	D 790
Flexural Modulus	1.46 x 10 <sup>6</sup> psi	10067 MPa	D 790

**THERMAL**

Deflection Temperature @ 264 psi (1820 kPa)	420 °F	216 °C	D 648
@ 66 psi (455 kPa)	395 °F	202 °C	D 648
Ignition Resistance*			
Flammability**	V-0 @ 1/16 in	V-0 @ 1.5 mm	D 3801
Flammability**	5VA @ 0.08 in	5VA @ 2.0 mm	D 5048

**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	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