

(+) 18816996168

Ponciplastics.com



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

PERMANENCE	English	SI Metric	ASTM TEST
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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 ⁶ psi	10342 MPa	D 638
Flexural Strength	33000 psi	228 MPa	D 790
Flexural Modulus	1.46 x 10 ⁶ 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

	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