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Poncioplastics.com



Product Data Sheet & General Processing Conditions

RTP 299 X 137151 A
Nylon 6/6 (PA)
Thermally Conductive
Electrically Insulative
Flame Retardant



PROPERTIES & AVERAGE VALUES OF INJECTION MOLDED SPECIMENS

PERMANENCE	English	SI Metric	ASTM TEST
Specific Gravity	1.77	1.77	D 792

MECHANICAL

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	2.0 ft-lbs/in	107 J/m	D 4812
Tensile Strength	10000 psi	69 MPa	D 638
Tensile Elongation	< 1.0 %	< 1.0 %	D 638
Tensile Modulus	3.25 x 10 ⁶ psi	22409 MPa	D 638
Flexural Strength	15000 psi	103 MPa	D 790
Flexural Modulus	3.25 x 10 ⁶ psi	22409 MPa	D 790

ELECTRICAL

Dielectric Strength, S/T, in oil	394 VPM	15.5 kV/mm	D 149
Surface Resistivity	> 1E12 ohm/sq	> 1E12 ohm/sq	D 257

THERMAL

Ignition Resistance*			
Flammability	V-0 @ 1/16 in	V-0 @ 1.5 mm	UL94
Thermal Conductivity			
Through-plane	8.33 (BTU.in)/(hr.ft ² .°F)	1.20 W/(m.K)	E 1530
In-plane	69.43 (BTU.in)/(hr.ft ² .°F)	10.00 W/(m.K)	E 1461-92

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.

GENERAL PROCESSING FOR INJECTION MOLDING

	English	SI Metric
Injection Pressure	10000 - 18000 psi	69 - 124 MPa
Melt Temperature	530 - 570 °F	277 - 299 °C
Mold Temperature	150 - 225 °F	66 - 107 °C
Drying	4 hrs @ 175 °F	4 hrs @ 79 °C
Moisture Content	0.20 %	0.20 %
Dew Point	0 °F	-18 °C