



Product Data Sheet & General Processing Conditions

RTP 285 D SI 2 Nylon 6/12 (PA) Carbon Fiber Silicone Lubricated

PROPERTIES & AVERAGE VALUES OF INJECTION MOLDED SPECIMENS

PERMANENCE	English	SI Metric	ASTM TEST
Primary Additive	30 %	30 %	
Specific Gravity	1.20	1.20	D 792
Molding Shrinkage 1/8 in (3.2 mm) section	0.0005 - 0.0030 in/in	0.05 - 0.30 %	D 955

MECHANICAL

Impact Strength, Izod notched 1/8 in (3.2 mm) section	1.9 ft-lbs/in	101 J/m	D 256
unnotched 1/8 in (3.2 mm) section	15.0 ft-lbs/in	801 J/m	D 4812
Tensile Strength	30000 psi	207 MPa	D 638
Tensile Elongation	1.5 - 2.5 %	1.5 - 2.5 %	D 638
Tensile Modulus	2.85 x 10 ⁶ psi	19651 MPa	D 638
Flexural Strength	44000 psi	303 MPa	D 790
Flexural Modulus	2.55 x 10 ⁶ psi	17582 MPa	D 790

ELECTRICAL

Volume Resistivity	1E-1 - 1E1 ohm.cm	1E-1 - 1E1 ohm.cm	D 257
Surface Resistivity	1E2 - 1E5 ohm/sq	1E2 - 1E5 ohm/sq	D 257

THERMAL

Deflection Temperature @ 264 psi (1820 kPa)	420 °F	216 °C	D 648
Ignition Resistance* Flammability**	HB @ 1/16 in	HB @ 1.5 mm	D 635

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 - 18000 psi	69 - 124 MPa
Melt Temperature	480 - 545 °F	249 - 285 °C
Mold Temperature	140 - 200 °F	60 - 93 °C
Drying	4 hrs @ 175 °F	4 hrs @ 79 °C
Moisture Content	0.20 %	0.20 %
Dew Point	0 °F	-18 °C

PROCESSING NOTES

Desiccant Type Dryer Required.

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complex, a set solution will not solve all problems. Observation on a "trial and error" basis may be required to achieve desired results.

Data are obtained from specimens molded under carefully controlled conditions from representative samples of the compound described herein. Properties may be materially affected by molding techniques applied and by the size and shape of the item molded. No assurance can be implied that all molded articles will have the same properties as those listed.

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