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Ponciplastics.com



Product Data Sheet & General Processing Conditions

RTP 881 SI 2
Acetal (POM)
Carbon Fiber
Silicone Lubricated

PROPERTIES & AVERAGE VALUES OF INJECTION MOLDED SPECIMENS

PERMANENCE	English	SI Metric	ASTM TEST
Primary Additive	10 %	10 %	
Specific Gravity	1.42	1.42	D 792
Molding Shrinkage 1/8 in (3.2 mm) section	0.0020 - 0.0050 in/in	0.20 - 0.50 %	D 955

MECHANICAL

Impact Strength, Izod notched 1/8 in (3.2 mm) section	1.3 ft-lbs/in	69 J/m	D 256
unnotched 1/8 in (3.2 mm) section	4.5 ft-lbs/in	240 J/m	D 4812
Tensile Strength	10500 psi	72 MPa	D 638
Tensile Elongation	1.0 - 2.0 %	1.0 - 2.0 %	D 638
Tensile Modulus	1.30 x 10 ⁶ psi	8964 MPa	D 638
Flexural Strength	15000 psi	103 MPa	D 790
Flexural Modulus	1.10 x 10 ⁶ psi	7584 MPa	D 790

ELECTRICAL

Volume Resistivity	1E2 - 1E5 ohm.cm	1E2 - 1E5 ohm.cm	D 257
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THERMAL

Deflection Temperature @ 264 psi (1820 kPa)	315 °F	157 °C	D 648
@ 66 psi (455 kPa)	340 °F	171 °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 - 15000 psi	69 - 103 MPa
Melt Temperature	360 - 425 °F	182 - 218 °C
Mold Temperature	175 - 225 °F	79 - 107 °C
Drying	2 hrs @ 250 °F	2 hrs @ 121 °C
Moisture Content	0.15 %	0.15 %
Dew Point	-25 °F	-32 °C

PROCESSING NOTES

Desiccant Type Dryer Required.