



Product Data Sheet & General Processing Conditions

RTP 800 SI 2 HB
Acetal (POM)
Silicone Lubricated
UL94 HB



RTP 800 SI 2 HB is a silicone fluid lubricated acetal. It offers easy flow, an excellent molded surface and good wear resistance.

PROPERTIES & AVERAGE VALUES OF INJECTION MOLDED SPECIMENS

PERMANENCE	English	SI Metric	ASTM TEST
Primary Additive	2 %	2 %	
Specific Gravity	1.39	1.39	D 792
Molding Shrinkage			
1/8 in (3.2 mm) section	0.0250 - 0.0350 in/in	2.50 - 3.50 %	D 955
Water Absorption, 24 hrs @ 23°C	0.220 %	0.220 %	D 570

MECHANICAL

Impact Strength, Izod			
notched 1/8 in (3.2 mm) section	1.8 ft-lbs/in	96 J/m	D 256
unnotched 1/8 in (3.2 mm) section	No Break	No Break	D 4812
Tensile Strength	7250 psi	50 MPa	D 638
Tensile Elongation	> 10.0 %	> 10.0 %	D 638
Tensile Modulus	0.36 x 10 ⁶ psi	2482 MPa	D 638
Flexural Strength	10300 psi	71 MPa	D 790
Flexural Modulus	0.33 x 10 ⁶ psi	2275 MPa	D 790

ELECTRICAL

Dielectric Strength, S/T, in oil	500 VPM	19.7 kV/mm	D 149
Volume Resistivity	> 1E16 ohm.cm	> 1E16 ohm.cm	D 257

THERMAL

Deflection Temperature			
@ 264 psi (1820 kPa)	230 °F	110 °C	D 648
@ 66 psi (455 kPa)	305 °F	152 °C	D 648
Ignition Resistance*			
Flammability	HB @ 1/32 in	HB @ 0.8 mm	UL94

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 - 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