

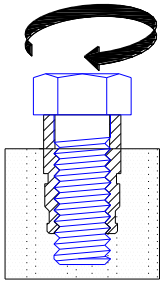
RAF Electronic Hardware



H-SERIES REFERENCE PERFORMANCE DATA

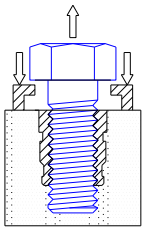
INSERT			ABS		POLYCARBONATE	
INCH	METRIC	LENGTH	TORQUE IN-LBS	TENSILE LBS	TORQUE IN-LBS	TENSILE LBS
# 0	M1.6	.115" .188"	45 oz-in 55 oz-in	75 154	46 oz-in 63 oz-in	128 245
#2	M2.2	.115" .188"	60 oz-in 70 oz-in	75 154	100 oz-in 150 oz-in	128 245
#4	M2.5	.135" .219"	12 16	140 245	19 22	219 396
#6	M3 & M3.5	.150" .250"	22 24	209 351	31 43	324 661
#8	M4	.185" .312"	35 43	288 445	49 84	511 865
#10		.225" .375"	48 65	425 690	82 118	734 1319
	M5	.265" .438"	56 74	482 768	91 133	890 1444
¼"	M6	.300" .500"	96 110	665 1100	149 219	1218 1969
5/16"	M8	.335" .562"	147 203	702 1363	246 327	1477 2971
3/8"	M10	.375" .625"	209 217	893 1655	364 495	1962 3456

Note: The test values listed above are for reference only and are for the general grades of plastics listed. Critical applications should be tested individually to determine their actual performance.



Rotational Torque is measured by applying rotational force (torque) to the insert with the use of a spacer (steel is recommended). The spacer should be the same diameter of the insert or slightly smaller. The force, typically in inch-lbs or Newton meters, is measured at peak load prior to the insert turning in the mating material.

When performing this test, full thread engagement is recommended.



Tensile Pull is measured by clamping down on the plastic material while pulling the insert in the opposite direction. This axial force is typically measure in pounds or Newtons. The force is typically recorded when the insert moves by approximately .020" inches (.5mm).

When performing this test, full thread engagement is recommended.

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