



NYLON PAN HEAD MACHINE SCREWS

| Nominal Size | A | | H | | J | | T | |
|--------------|---------------|------|----------------|------|---------------|------|---------------|------|
| | Head Diameter | | Height of Head | | Width of Slot | | Depth of Slot | |
| | Max | Min | Max | Min | Max | Min | Max | Min |
| 1 | .142 | .130 | .046 | .038 | .026 | .019 | .027 | .018 |
| 2 | .167 | .155 | .053 | .045 | .031 | .023 | .031 | .022 |
| 4 | .219 | .205 | .068 | .058 | .039 | .031 | .040 | .030 |
| 6 | .270 | .256 | .082 | .072 | .048 | .039 | .050 | .037 |
| 8 | .322 | .306 | .096 | .085 | .054 | .045 | .058 | .045 |
| 10 | .373 | .357 | .110 | .099 | .060 | .050 | .068 | .053 |
| 1/4 | .492 | .473 | .144 | .130 | .075 | .064 | .087 | .070 |

| Tolerance on Length | Nominal Screw Size | Nominal Screw Length | | | |
|---------------------|--------------------|----------------------|--------------------------|------------------------|------------|
| | | Up to 1/2 in., incl. | Over 1/2 to 1 in., incl. | Over 1 to 2 in., incl. | Over 2 in. |
| | 1 thru 10 | -0.02 | -0.03 | -0.06 | -0.09 |
| 1/4 | -0.03 | -0.03 | -0.06 | -0.09 | |

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| Description | An externally threaded fastener with a head that has slightly rounded sides, a flat top and a flat underside. |
| Applications/ Advantages | To be used with internally threaded nylon fasteners in applications that require corrosion resistance or electrical insulation. Nylon's other advantages include: resistance to greases and oils; a low coefficient of friction; ability to maintain its torque strength when exposed to a wide range of temperatures. |
| Material | Nylon 6/6 |
| Hardness | Rockwell M80 |
| <i>Tensile, shear and torque data is offered for informational purposes only. This data should not be used to set specification limits. It is always wise to test parts in the actual application.</i> | |
| Tensile Test (Break Pounds) | 2-56: 19 lbs.; 4-40: 41 lbs.; 6-32: 69 lbs.; 8-32: 108 lbs.; 10-24: 149 lbs.; 10-32: 165 lbs.; 1/4-20: 312 lbs. |
| Double Shear (Break Pounds) | 2-56: (No test); 4-40: 50 lbs.; 6-32: 97 lbs.; 8-32: 164 lbs.; 10-24: 257 lbs.; 10-32: 241 lbs.; 1/4-20: 432 lbs. |
| Maximum Torque (before deformation) | 2-56: (No test); 4-40: 12-16 in. oz.; 6-32: 18-20 in. oz.; 8-32: 2-3 in. lbs.; 10-24: 2-4 in. lbs.; 10-32: 3-4 in. lbs.; 1/4-20: 9-10 in. lbs. |
| Thermal Properties | Melting Point: 500° F Continuous Use Temperature: 185° F |