

Nylon 11

Material for aerospace, gas tanks and ducts.

| General Properties | | | |
|---------------------------------------------------|--------------|------------------------|--------------------|
| Color / appearance | visual white | | |
| Density | ASTM D792 | 0.0376 | lb/in ³ |
| Mechanical Properties | | | |
| Tensile modulus | ASTM D638 | 202,000 - 275,000 | psi |
| Tensile strength | ASTM D638 | 5,950 - 7,600 | psi |
| Elongation at break | ASTM D638 | 12.0 - 4.5 | % |
| Flexural modulus | ASTM D790 | 126,000 | psi |
| Izod impact strength (method A, notched) | ASTM D256 | 1.30 | ft-lb/in |
| Impact strength (unnotched) | ASTM D256 | 26 | ft-lb/in |
| Hardness, shore D | - | 75D | - |
| Surface finish ra | - | 350 - 500 | - |
| Volume resistivity (22 °C, 50 % RH, 500V) | ASTM D257 | 93 - 1.00E + 15 | Ω-cm |
| Thermal Properties | | | |
| Heat deflection temperature (HDT) @ 264 @66 | ASTM D648 | 111 - 131 302 - 325 | °F °F |

** The mechanical properties depend on the exposure parameters used. The data are based on our latest knowledge and are subject to changes without notice. They do not guarantee properties for a particular part and in a particular application.*