Material Data Sheet

Alloy 910

Alloy 910 has a combined tensile strength higher than the strongest co-polyesters, the durability of Nylons, a low shrinkage factor, a vast range of chemical resistance and a 82°C working range.

As with all nylons, warp can be a problem, our N1 support helps to control it, often brim is also required, depending on the geometry of the part.

Mechanical Properties*

Type	Test Method	Imperial	Metric
Tensile Modulus	ISO 527	72,932 psi	502.84844 Mpa
Tensile Stress	ISO 527	8,100 psi	55.84753 Mpa
Elongation at break	ISO 527	32%	32%

Thermal Properties

	Test Method	Imperial	Metric
Pyrolysis - Thermal degradation		660.2°F	349°C
UL Flammability	UL 94 HB	Yes	
UL Flammability - 1.5mm thickness	UL 94 V2	Yes	

Physical Characteristics & Features

Type	Imperial	Metric
Density		gr/cm³
Shrink	0.0033%	0.0033%
CNC Finishing & hole tapping	Excellent	

*Test parts have been 3D printed according to XZ orientation, using 100% infill, 0.2mm layer thickness

The information supplied is supplied as informative: user should use it as material selection tool and/or comparison with available materials.

Printed part performance may differ from published value, depending on part orientation, printing parameters & environmental conditions.

User must validate suitability of the printed part and its lawful to be used as desired: no warranty can be made (express or implied) to any use of Plural materials.

We reserve the right to improve our polymer formulations and/or revise our technical data.