

PA 206-FR

The newest of the FR-rated materials, PA 206-FR has been tested to FAR 25.853 requirements, and will pass the 60-second vertical burn test. Because it has a Nylon-12 base, it will produce parts with finer detail than FR-106. Very useful for on-flight production commercial aerospace parts, including ducting.

Material Properties		
Density, Bulk	ASTM D 1895	0.50 g/cc
<u>Particle Size</u>		
- d90	Laser Diffraction	55 - 60 µm
- d50	Laser Diffraction	40 - 50 µm
- d10	Laser Diffraction	30 - 40 µm
Specific Gravity	ASTM D 792	1.02 g/cc
Melting Point	ASTM D 3418	181 °C
Melt Flow Rate (180 sec, 2.16 kg, 235 °C)	ASTM D 1238	7 ± 2 g/10 mins
<u>Tensile Strength, Ultimate</u>		
- XY orientation	ASTM D 638	46 MPa / 6700psi
- Z orientation	ASTM D 638	36 MPa / 5200 psi
Tensile Modulus	ASTM D 638	1,740 MPa / 256 ksi
<u>Elongation at break</u>		
- XY orientation	ASTM D 638	14 %
- Z orientation	ASTM D 638	3 %
<u>Flammability</u>		
- 12 second burn	FAR 25.853	PASS
- 60 second burn	FAR 25.853	PASS
Smoke Density	FAR 25.853	PASS
Unfinished Part	ISO 4287	10 ± 1 µm

Chemical Resistance

Matrix in Polyamide 12 with a good chemical resistance to alkaline, hydrocarbons, oils, gasolines, gas oil and solvents. Attack by the acids. Sealing of wall starting from 1.16mm thickness.

** 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.*