

Data Sheet

Polyamide PA6 FRT

Data Sheet Type	Final
Material Reference	PA6 FRT Natural
Polymer	
Date Issued	04/12/24



Description

Polyamide 6 FRT is a high performance plastic with high mechanical strength and exception Flame Resistance properties, widely used in the aerospace, transportation, mechanical engineering and automotive industry.

Tested in accordance with EN45545 and certified R22, HL1, HL2, R23, HL3; UL94 VO; FAR 25,853 passes Flame Spread, Heat Release, Smoke Density, plus GAs Toxicity in accordance with Airbus ABD 0031.

Specifications	Values	Test Methods
Compression Strength	15 / 34 MNs / g	ISO 604:2002
Density	1.19 g/cm 3	None
Elongation at Break	3 %	ISO 527-2
Flexural Strength	121 MPA	ISO 178:2001
Glass Transition	45 °C	ISO 11357
Highest Recommended Working Temperature	100 °C	None
Impact Toughness	53 KJ/m2	ISO 179-1
Intermittent Working Temperature	160 °C	None
Melting Temperature	221 °C	ISO 11357
Shore Hardness (Shore D)	81 ° Shore	ISO 868:2003
Superficial Resistivity	10 <sup>14</sup> Ohm(s)	None
Tensile Strength	79 MPA	ISO 527-2
Volume Resistivity	10 <sup>14</sup> Ohms cm	None
Water Absorption	2.8 %	ISO 62:1999

Purposes



Flame Retardent



Tear Resistant



Wear Resistant

### **Important Notes about this Material Data Sheet**

This datasheet has been carefully compiled to advise you, our customer, in the best possible way. The information, figures, test values, and data correspond to actual engineering standards and are the result of many years of tests and trials. As individual operating conditions influence the application of each product, the information supplied in this datasheet can only be seen as a rough guideline. In every case it is the sole responsibility of the customer to evaluate his individual requirements, in particular whether the specified properties of our products are sufficient for the intended use. This datasheet is subject to alteration without prior notice. All mentioned values contained herein are guiding values representing long-term experience averages. Please be aware that Test Results for individual Material Batches will only be provided if requested at the time of order and may be subject to additional charges and/or lead times. This Data Sheet supersedes all previous data sheets and any other data previously provided either Verbally, Electronic or Written, with reference to the above Material Grade.