

Technical Datasheet

PA6 F223 D

1) Product Description:

F223D is a general purpose PA6 with low to medium viscosity. The grade features fast processing properties enabling short moulding cycles. The moulded articles have a high crystallinity resulting in good strength, stiffness and toughness.

2) Applications:

Technical parts requiring excellent mechanical and thermal properties.

3) Typical data:

| Property | Test method | Unit | Value* |
|-------------------------------------|-------------|-------------------|-------------|
| Density | ISO 1183 | g/cm ³ | 1,13 |
| Flammability | UL94 | Class | V-2 |
| At 1.6mm | | Class(mm) | V-2(0.75mm) |
| At (x) mm | | | |
| Moisture absorption | ISO 62 | | |
| At equilibrium in air 23°C/ 50%RH | | % | 2,8 |
| After saturation in water 230 °C | | % | 10 |
| Tensile test | ISO 527-1 | | |
| yield stress (at 50 mm/min) | | MPa | 90 / 60 |
| yield strain (at 50 mm/min) | | % | 3,5 / 20 |
| nom. strain at break (at 50 mm/min) | | % | 20 / 50 |
| stress at break (at 5 mm/min) | | MPa | - |
| strain at break (at 5 mm/min) | | % | - |
| tensile modulus (at 1 mm/min) | | MPa | 3500 / 1700 |
| Charpy impact strength | | | |
| (at +23°C) | ISO 179/1eU | kJ/m ² | NB / NB |
| (at -30°C) | ISO 179/1eU | kJ/m ² | 120 / NB |
| notched (at +23°C) | ISO 179/1eU | kJ/m ² | 8 / 35 |
| notched (at -30°C) | ISO 179/1eU | kJ/m ² | 5 / 5 |

* Typical values not to be construed as specifications.cm