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Nylon 66 Glass Filled

Nylon 66 GF 30 is a 30% glass fibre reinforced semi-crystalline engineering plastic with high strength and varied applications.

The main characteristics of Nylon 66 GF 30 are:

- Very strong
- Very rigid
- Resistant to many oils, greases, diesel, petrol, cleaning fluids
- Good dimensional accuracy
- Very abrasion resistant
- Good heat distortion resistance
- Easily machined
- Easily bonded

The preferred fields of use are: Mechanical engineering, automotive engineering, transport and conveyor technology, gears, couplings and engine construction, textile, packaging and paper processing machinery, precision engineering, and electrical tools.

Popular applications for this product are:

- Diverse machine parts
- Levers
- Thermal insulators
- Wiper blades
- Housing parts
- Distance pieces
- Friction rings
- Support rings



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Technical Information

Information to be used as a guide only. It corresponds with our current knowledge and indicates possible applications. We cannot guarantee suitability for a specific application. Unless otherwise stated these values represent averages taken from injection moulded samples.

| Properties | Unit | Test Method DIN ASTM | Result Dry | Result Wet* |
|---|---------------------|-------------------------|--------------------|----------------|
| Mechanical | - | - | - | - |
| Density | g/cm ³ | 53479 | 1.35 | - |
| Tensile strength at yield | MPa | 53455 | - | - |
| Tensile strength at break | MPa | 53455 | 200 | 140 |
| Elongation at Break | % | 53455 | 3.5 | 5 |
| Modulus of elasticity in tension | MPa | 53457 | 9700 | 7500 |
| Modulus of elasticity in flexure | MPa | 53457 | - | - |
| Ball indentation hardness | MPa | 53456 | 270 | 200 |
| Impact strength (Charpy) | KJ/m ² | 53453 | 13 | 17 |
| Creep rupture strength after 1000 hours with static load | MPa | - | - | - |
| Time yield limit for 1% elongation after 1000 hours | MPa | - | 40 | - |
| Coefficient of friction against hardened and ground steel p+0,05 N/mm ² , v=0,6 m/s | - | - | 0.45 - 0.5 | - |
| Wear conditions as above | µm/km | - | - | - |
| Thermal | - | - | - | - |
| Crystalline melting point | °C | 53736 | 255 | - |
| Glass transition temperature | °C | 53736 | 50 | 5 |
| Heat distortion temperature method A | °C | ISO 75 | 250 | - |
| Heat distortion temperature method B | °C | ISO 75 | 250 | - |
| Max. service temperature short term | °C | - | 200 | - |
| Max. service temperature long term | °C | - | 110 | - |
| Coefficient of thermal conductivity | W/(m K) | - | 0.27 | - |
| Specific heat | J/(g K) | - | 1.5 | - |
| Coefficient of thermal expansion | 10 ⁻⁵ /K | - | 2.3 | - |
| Electrical | - | - | - | - |
| Dielectric constant at 10 (5) Hz | - | 53483 | - | - |
| Dielectric loss factor at 10(5) Hz | - | 53483 | - | - |
| Specific Volume Resistance | Ωcm | 53482 | - | - |
| Surface Resistance | Ω | 53482 | - | - |
| Dielectric strength 1mm | kV/mm | 53481 | - | - |
| Tracking resistance | - | 53480 | - | - |
| Miscellaneous | - | - | - | - |
| Moisture Absorption: Equilibrium in standard atmosphere (23°C / 50% relative humidity) | % | 53714 | 1.5 | - |
| Water absorption at saturation at 23°C | % | 53495 | 5.5 | - |
| Resistance to hot water, washing soda | - | - | limited resistance | - |
| Flammability | - | UL 94 | HB | - |
| Resistance to weathering | - | - | resistant | - |

*after storage in a standard 23/50 atmosphere (DIN 50 014) to equilibrium