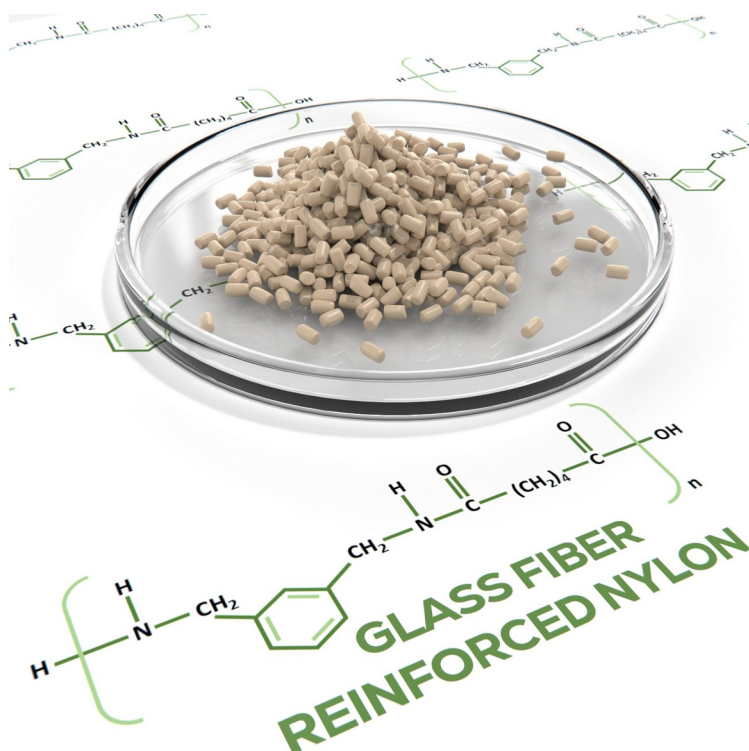




Material Datasheet — PA66 + 30% Glass Fiber

Glass-fiber-reinforced nylon 66 offering high stiffness and strength, improved heat resistance, and good dimensional stability versus unfilled PA66.

Key specifications

Item	Value
Continuous Use Temperature	125 °C / 257 °F
UL 94 Flame Rating	HB
Density	1.36 g/cm ³

Mechanical properties (typical)

Property	Test method	Typical value	Unit
Tensile strength (23 °C, dry)	ISO 527	165–190	MPa
Tensile modulus (23 °C, dry)	ISO 527	10	GPa
Flexural modulus	ISO 178	8.7–9.0	GPa
Charpy impact (notched, 23 °C, dry)	ISO 179/1eA	10–11	kJ/m ²

Thermal properties

Property	Test method	Typical value	Unit
Melting temperature	ISO 11357	260–263	°C
HDT (1.8 MPa)	ISO 75	248–250	°C
HDT (0.45 MPa)	ISO 75	250–260	°C

Electrical properties

Property	Test method	Typical value	Unit
Dielectric strength	IEC 60243	38–40	kV/mm
Relative permittivity (1 MHz)	IEC 60250	3.7–4.1	—
Dissipation factor (1 MHz, dry)	IEC 60250	0.015–0.021	—
Volume resistivity (dry)	IEC 60093	$\geq 1 \times 10^{15}$	$\Omega \cdot \text{cm}$
CTI (Comparative Tracking Index)	IEC 60112	400–550	—

Moisture & environment

Property	Test method	Typical value	Unit
Moisture absorption (23 °C, 50% RH)	Sim. to ISO 62	1.7–1.9	%
Water absorption (saturation)	Sim. to ISO 62	5.5–6.0	%