MOCOM

Altech NXT PP®
High performance PP

Altech NXT PP® closes the gap between classic PP and PA and thus sets new standards for glass fiber reinforced PP compounds.

Due to current trends such as lightweight construction, weight reduction and sustainability, all material classes are in constant competition with each other. So far, there is a gap between the polymer materials PA and PP with regard to the achievable stiffness and heat resistance. Advantages such as the lower density and the low influence of conditioning effects could not be exploited by PP so far. Until now...

The gap between PA and PP is closed by our portfolio Altech NXT PP®.

The glass fiber reinforced Altech NXT PP® compounds obtain their unique property profile through their innovative composition and MOCOM specific compounding. High mechanical stiffness and strength as well as an increased heat resistance set Altech NXT PP® apart from standard PP compounds. This allows the use of Altech NXT PP® even in applications with a continuous operating temperature of up to 120 °C without loss of properties. With Altech NXT PP®, the user receives a compound series with which technically highly stressed components can be realized in an economical way.

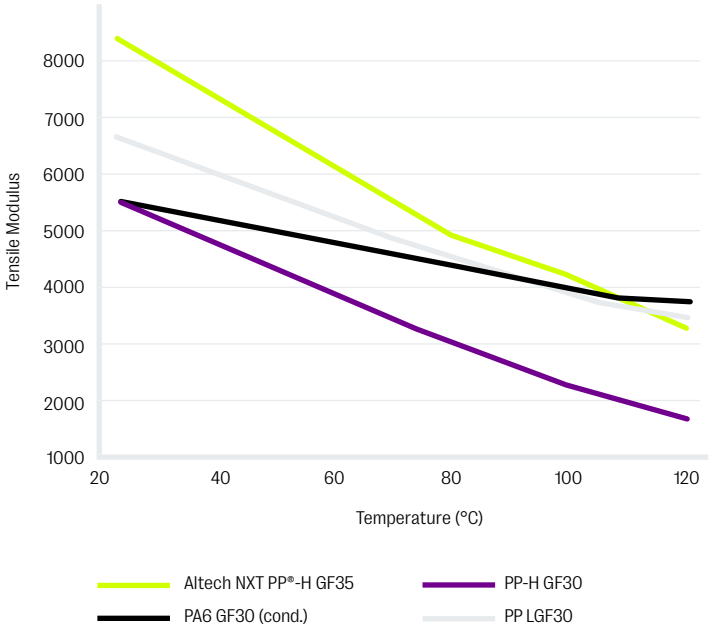
In addition to a core portfolio with different glass fiber contents, we offer special UV protection types as well as material with reduced emissions for use in vehicle interiors. With Altech NXT PP® we are also happy to meet your wishes for individual customization and color matching.

Altech NXT PP®: the advantages at a glance

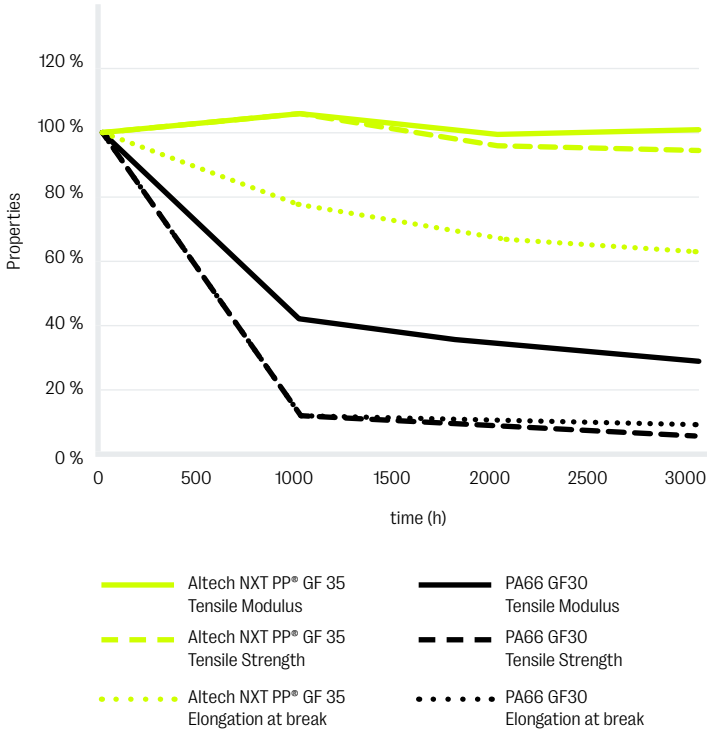
- **Significant weight reduction compared to PA**
- **High stiffness and strength**
- **Excellent heat aging resistance**
- **No influence of conditioning on the mechanics**
- **Good chemical resistance**
- **Good flowability, easy processing**
- **Low warpage potential due to uniform, low shrinkage**
- **Low emission grades available**

Material	Tensile modulus ISO 527-1/-2 (MPa)	Tensile stress at break ISO 527-1/-2 (MPa)	Tensile elongation at break ISO 527-1/-2 (MPa)	Charpy Impact strength (23 °C) ISO 179/1eU (kJ/m²)	Charpy Impact strength (23 °C) ISO 179/1eA (kJ/m²)	HDT/A (1.8 MPa) ISO 75 (°C)	Density ISO 1183 (g/cm³)	Comments
AT NXT PP-H A 2030/450.02 GF30	7000	90	2,5	50	9	150	1.12	Standard
PP-H GF30	5500	55	2,0	12	5	138	1.12	
PA6 GF30	9000 / 5500	170 / 90	3,0 / 6,0	70 / 89	10 / 19	210	1.36	Dry/ Conditioned
AT NXT PP-H A 2035/450.00 GF35	8500	100	2,7	60	10	160	1.17	Standard
AT NXT PP-H A 2035/752.02 GF35	8400	100	3,0	50	9	157	1.18	UV-Stabilization
AT NXT PP-H A 2040/450.02 GF40	9600	100	2,4	50	8	155	1.23	Standard
AT NXT PP-H A 2040/456.02 GF40	9600	100	2,4	50	8	155	1.23	Low Emission
AT NXT PP-H A 2050/450.02 GF50	11500	110	2,0	50	9	160	1.34	Standard
AT NXT PP-H A 2050/456.02 GF50	11500	110	2,0	50	9	160	1.34	Low Emission
AT NXT PP-H A 2330/456.02 GF20 GB10	5700	85	3,0	50	8	155	1.13	Low Emission

E-Modulus over different temperatures



Water/Glycol (50:50) Resistance at 120°C over time



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