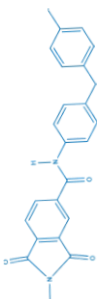


PAI GLon™ T71 is a carbon fiber reinforced grade of polyamide-imide (PAI) resin combining high strength, stiffness, and fatigue resistance with excellent dimensional stability and electrical conductivity. It retains outstanding mechanical properties up to 275°C (525°F) and offers steel-like thermal expansion.

Typical applications include metal replacement, aerospace components, sliding vanes, impellers, shrouds, pistons, and housings requiring maximum stiffness, thermal stability, and wear resistance.



Physical Properties	Typical Value	Unit	Test method
Density / Specific Gravity	1,48	g/cm ³	ASTM D792
Water Absorption (24 h)	0,26	%	ASTM D570
Mechanical Properties	Typical Value	Unit	Test method
Tensile Modulus	16500 22300	MPa	ASTM D638 ASTM D1708
Tensile Strength	221	MPa	ASTM D638
Tensile Stress	203	MPa	ASTM D1708
Tensile Elongation	1,5	%	ASTM D638
Flexural Modulus			ASTM D790
23°C	19900	MPa	
232°C	15700	MPa	
Flexural Strength			ASTM D790
23°C	350	MPa	
232°C	174	MPa	
Compressive Modulus	9860	MPa	ASTM D695
Compressive Strength	254	MPa	ASTM D695
Impact			
Notched Izod	48	J/m	ASTM D256
Unnotched Izod	320	J/m	ASTM D4812
Thermal Properties	Typical Value	Unit	Test method
Heat Deflection Temperature (HDT)	282	°C	ASTM D648 1,80 MPa
Coefficient of Linear Thermal Expansion (CLT)	9,0	10 ⁻⁶ × K ⁻¹	ASTM D696

Typical properties: Mentioned values are not to be construed as specifications. Properties of final parts may differ due to shape and process related variations. *PAI GLon™ T71 is a trademark of GAPI Technische Produkte GmbH and equivalent to Torlon® 7130 (PAI). Torlon is a registered trademark of Syntex Specialty Polymers.

2026

