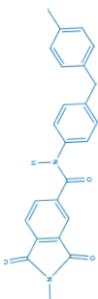


PAI GLon™ T44 is a wear-resistant grade of polyamide-imide (PAI) resin that combines good mechanical properties with very good wear resistance.

Specialised for very demanding conditions it offers a low coefficient of friction and maintains excellent wear performance under both high-speed and high-pressure conditions up to 275°C (525°F).

Typical applications include thrust washers, piston rings and other parts requiring high strength at elevated temperatures and wear resistance.



Physical Properties	Typical Value	Unit	Test method
Density / Specific Gravity	1,59	g/cm ³	ASTM D792
Water Absorption (24 h)	0,12	%	ASTM D570
Mechanical Properties	Typical Value	Unit	Test method
Tensile Modulus	14500	MPa	ASTM D638
	9700	MPa	ASTM D1708
Tensile Strength	94	MPa	ASTM D638
	110	MPa	ASTM D1708
Tensile Elongation	1,0	%	ASTM D638
	6,0	%	ASTM D1708
Flexural Modulus	14800	MPa	ASTM D790
	10300	MPa	
Flexural Strength	152	MPa	ASTM D790
	91	MPa	
Compressive Modulus	8600	MPa	ASTM D695
Compressive Strength	138	MPa	ASTM D695
Coefficient of Friction	0,29	-	ASTM D3702
	0,27	-	
Wear Factor	21,0	$\frac{in^3 \times min^{-10}}{ft \times lb \times hr}$	ASTM D3702
	17,0		
Impact	40	$\frac{J}{m}$	ASTM D256
	220		ASTM D4812
Thermal Properties	Typical Value	Unit	Test method
Heat Deflection Temperature (HDT)	278	°C	ASTM D648 1,80 MPa
Coefficient of Linear Thermal Expansion (CLT)	14,0	$10^{-6} \times K^{-1}$	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™ T44 is a trade mark of GAPI Technische Produkte GmbH and based on Torlon® (PAI) polymers. Torlon is a registered trademark of Syensqo Specialty Polymers.

2026

