

PAI GLon<sup>™</sup> T43PF is a special wear-resistant grade of polyamide-imide (PAI) resin that combines the advantages of the standard GLon<sup>™</sup> 43 with a PFAS-free formulation – also with excellent mechanical properties and a good wear resistance.

It offers high flexural and compressive strength, a low coefficient of friction, and maintains good wear performance under both high-speed and high-pressure conditions up to  $275^{\circ}$ C ( $525^{\circ}$ F).

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

Physical Properties	Typical Value**	Unit	Test method
Density / Specific Gravity	1,48	g/cm³	ASTM D792
Water Absorption (24 h)	0,29	%	ASTM D570
Mechanical Properties	Typical Value**	Unit	Test method
Tensile Modulus	6490 6220	MPa MPa	ASTM D638 ASTM D1708
Tensile Strength	107	MPa	ASTM D638
Tensile Stress	154	MPa	ASTM D1708
Tensile Elongation	3,1	%	ASTM D638
Flexural Modulus 23°C 232°C	6540 4710	MPa MPa	ASTM D790
Flexural Strength 23°C 232°C	204 106	MPa MPa	ASTM D790
Compressive Modulus	5040	MPa	ASTM D695
Compressive Strength	157	MPa	ASTM D695
Coefficient of Friction Dry: 0.25 m/s, 3.4 MPa Dry: 4 m/s, 0.2 MPa Lubricated: 0.25 m/s, 6.9 Mpa Lubricated: 4 m/s, 5.2 Mpa	0,33 0,41 0,20 0,05		ASTM D3702
Wear Factor Dry: 0.25 m/s, 3.4 MPa Dry: 4 m/s, 0.2 MPa Lubricated: 0.25 m/s, 6.9 Mpa Lubricated: 4 m/s, 5.2 Mpa	16,0 19,0 11,0 0,70	$\frac{in^3 \times min^{-10}}{ft \times lb \times hr}$	ASTM D3702
Impact Notched Izod Unnotched Izod	58 382	$\frac{J}{m}$	ASTM D256 ASTM D4812
Thermal Properties	Typical Value**	Unit	Test method
Heat Deflection Temperature (HDT)	279	°C	ASTM D648 1,80 MPa
Coefficient of Linear Thermal Expansion (CLT)	25,0	$10^{-6}\times K^{-1}$	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" T43PF is a trademark of GAPI Technische Produkte GmbH and equivalent to Torlon® 4301PF (PAI). Torlon is a registered trademark of Syensqo Specialty Polymers." "Preliminary Values, Product under development – Final values may differ.



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