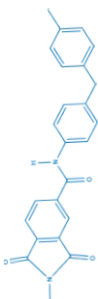


PAI Glon™ T43 is a wear-resistant grade of polyamide-imide (PAI) resin that combines excellent mechanical properties with good wear resistance. It offers high flexural and compressive strength, a low coefficient of friction, and maintains good wear performance under both high-speed and high-pressure conditions up to 275°C (525°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	1,46	g/cm ³	ASTM D792
Water Absorption (24 h)	0,28	%	ASTM D570
Mechanical Properties	Typical Value	Unit	Test method
Tensile Modulus	6830	MPa	ASTM D638
	6550	MPa	ASTM D1708
Tensile Strength	113	MPa	ASTM D638
Tensile Stress	163	MPa	ASTM D1708
Tensile Elongation	3,3	%	ASTM D638
Flexural Modulus			ASTM D790
23°C	6890	MPa	
232°C	4960	MPa	
Flexural Strength			ASTM D790
23°C	215	MPa	
232°C	112	MPa	
Compressive Modulus	5310	MPa	ASTM D695
Compressive Strength	166	MPa	ASTM D695
Coefficient of Friction			
Dry: 0.25 m/s, 3.4 MPa	0,31	-	ASTM D3702
Dry: 4 m/s, 0.2 MPa	0,39	-	
Lubricated: 0.25 m/s, 6.9 Mpa	0,18	-	
Lubricated: 4 m/s, 5.2 Mpa	0,03	-	
Wear Factor			ASTM D3702
Dry: 0.25 m/s, 3.4 MPa	14,0		
Dry: 4 m/s, 0.2 MPa	17,0	$\frac{in^3 \times min^{-10}}{ft \times lb \times hr}$	
Lubricated: 0.25 m/s, 6.9 Mpa	9,00		
Lubricated: 4 m/s, 5.2 Mpa	0,40		
Impact			
Notched Izod	64	$\frac{J}{m}$	ASTM D256
Unnotched Izod	410	$\frac{J}{m}$	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 × 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™ T43 is a trademark of GAPI Technische Produkte GmbH and equivalent to Torlon® 4301 (PAI). Torlon is a registered trademark of Syensqo Specialty Polymers.*

2026

