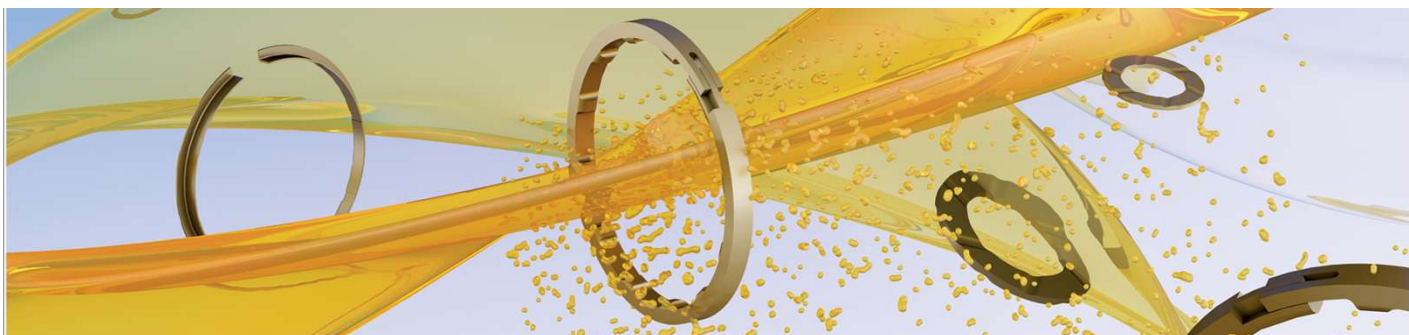
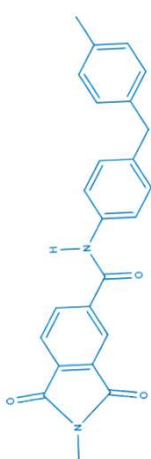




PAI GLon™ T46 is a wear-resistant grade of polyamide-imide (PAI) resin that combines good mechanical properties with very good wear resistance.

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). Very performant even under dry conditions.

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	1,56	g/cm ³	ASTM D792
Water Absorption (24 h)	0,18	%	ASTM D570
Mechanical Properties	Typical Value	Unit	Test method
Tensile Modulus	7450	MPa	ASTM D638
Tensile Strength	81	MPa	ASTM D638
Tensile Elongation	1,9	%	ASTM D638
Flexural Modulus 23°C	6800	MPa	ASTM D790
Flexural Strength 23°C	131	MPa	ASTM D790
Compressive Strength	99	MPa	ASTM D695
Coefficient of Friction			
Dry: 0.25 m/s, 3.4 MPa	0,32	-	ASTM D3702
Dry: 4 m/s, 0.215 MPa	0,32	-	
Lubricated: 0,25 m/s, 6,9 MPa	0,15	-	
Lubricated: 4 m/s, 5,2 MPa	0,030	-	
Wear Factor			
Dry: 0.25 m/s, 3.4 MPa	6	$\frac{in^3 \times min^{-1}}{ft \times lb \times hr}$	ASTM D3702
Dry: 4 m/s, 0.2 MPa	13,5		
Lubricated: 0,25 m/s, 6,9 MPa	11		
Lubricated: 4 m/s, 5,2 MPa	1		
Impact			
Notched Izod	48	$\frac{J}{m}$	ASTM D256
Unnotched Izod	160	$\frac{J}{m}$	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)	3,6	$10^{-6} \times K^{-1}$	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™ T46 is a trademark of GAPI Technische Produkte GmbH and based on Torlon® (PAI) polymers. Torlon is a registered trademark of Syensqo Specialty Polymers.

