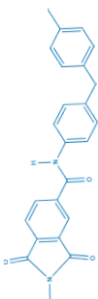


PAI GLon™ XA55 is a polyamide-imide (PAI) resin reinforced with glass fibers, developed to deliver superior strength, high stiffness, and excellent creep resistance. Among thermoplastics, PAI GLon™ stands out for maintaining exceptional strength and rigidity at continuous temperatures up to 275 °C (525 °F).

This material also resists wear, creep, and a broad range of chemicals. With its robust mechanical profile, PAI GLon™ XA55 is an ideal choice for metal replacement in high-temperature, high-load applications.



Physical Properties	Typical Value	Unit	Test method
Density / Specific Gravity	1,53	g/cm ³	DIN EN ISO 1183-1
Water Absorption (24 h)	0,25	%	DIN EN ISO 62
Hardness (Shore D)	86	Shore-D	DIN ISO 48-4
Hardness (Brinell)	250	N/mm ²	DIN EN ISO 2039-1
Mechanical Properties	Typical Value	Unit	Test method
Tensile Modulus	9580	MPa	DIN EN ISO 527-2
Tensile Stress	151	MPa	DIN EN ISO 527-2
Tensile Elongation	2,3	%	DIN EN ISO 527-2
Flexural Modulus 23°C	8980	MPa	DIN EN ISO 178
Flexural Strength 23°C	234	MPa	DIN EN ISO 178
Compressive Modulus	9080	MPa	DIN EN ISO 604
Compressive Strength	230	MPa	DIN EN ISO 604
Impact			
Notched Izod 23°C	7,7		DIN EN ISO 179-1/1eA
Notched Izod -25°C	7,5	$\frac{kJ}{m^2}$	DIN EN ISO 179-1/1eA
Unnotched Izod 23°C	33,5		DIN EN ISO 179-1/1eU
Unnotched Izod -25°C	37,3		DIN EN ISO 179-1/1eU
Thermal Properties	Typical Value	Unit	Test method
Heat Deflection Temperature (HDT)	284	°C	DIN EN ISO 75-2 1,80 MPa
Vicat Softening Temperature	282	°C	DIN EN ISO 306

*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™ XA55 is a trademark of GAPI Technische Produkte GmbH and based on Torlon® (PAI). Torlon is a registered trademark of Syensqo Specialty Polymers.*

2026

