

GLAMIDE™ Agenda

- High Strength and Low warpage Polyamide Resin "TY-891G60S"
- High Rigidity and Sliding Polyamide Resin "TY-791G60"
- High Rigidity and Low warpage Polyamide Resin "TY-791HQ"
- High impact polyamide resin "TY-722GDQ" and "TY-752GDQ"
- Ultra-High Rigidity Polyamide resin "JF-30G"

GLAMIDE™ High Strength and Low warpage Polyamide Resin 「TY-891G60S」

Features

- High strength
- Good appearance
- Good sliding
- Low Water Absorption

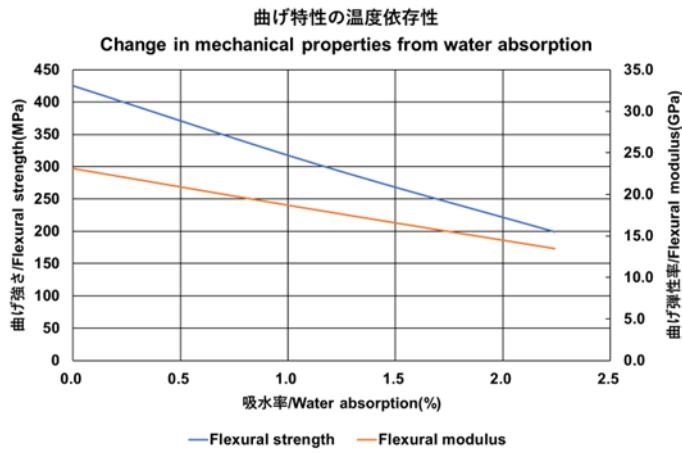
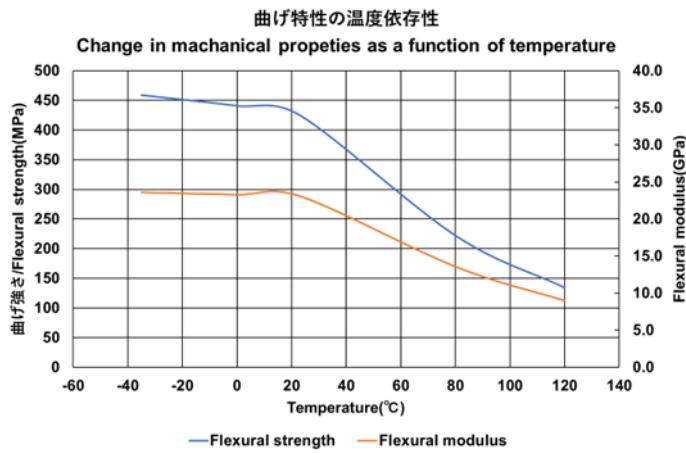
Applications

- Door mirror parts
- Console box hinge
- Refueling port
- Sporting goods
- Industrial Components, etc.

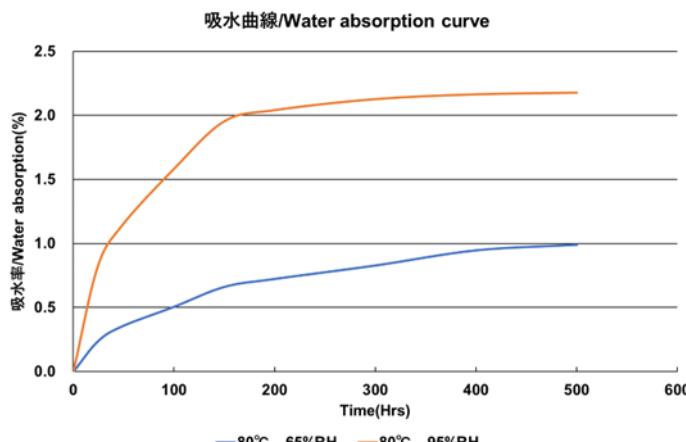
Spec · Quality

	Unit	GLAMIDE™ TY-891G60S	General PA66-GF50
Features		High Strength, Sliding	Standard
ISO Material Indication		>PAMXD6+PA66-GF60<	>PA66-GF50<
Density	g/cm³	1.76	1.57
Flexural strength	MPa	425	350
Flexural modulus	GPa	23.1	15.4
Charpy notched impact strength	-40°C	kJ/m²	13
	0°C	kJ/m²	15
	23°C	kJ/m²	17
Temperature of deflection under load	0.45MPa	°C	235
	1.8MPa	°C	230
			260
			255

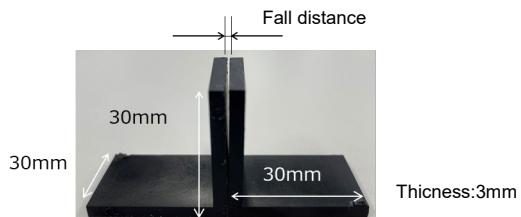
Flexural properties



Balances moisture



L-shaped collapse "90° right-angle"



	Fall distance
TY-891G60S	1.8mm
PA66-GF50	2.8mm

*Values and properties listed here are typical values, not guaranteed values.

GLAMIDE™ High Rigidity and Sliding Polyamide Resin 「TY-791G60」

Features

- High rigidity
- Good appearance
- Good sliding
- Low Water Absorption

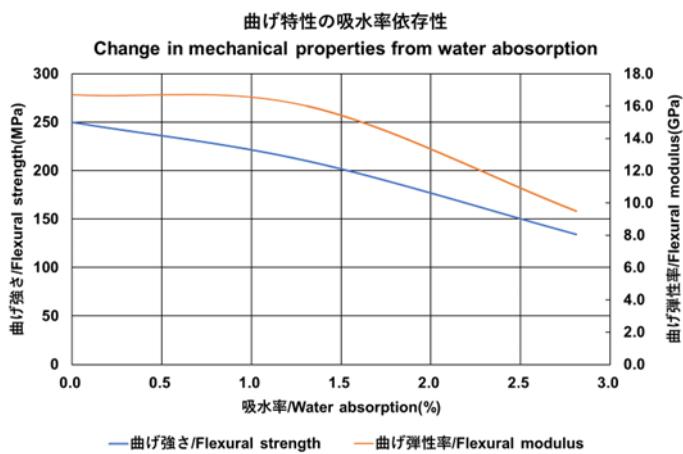
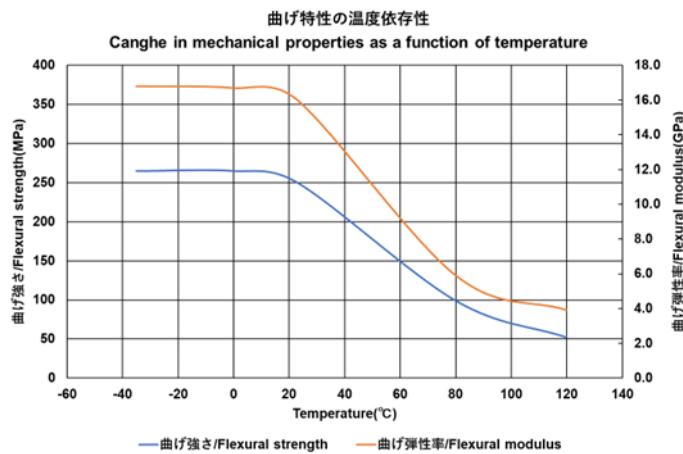
Applications

- Door mirror parts
- Console box hinge
- Refueling port
- Sporting goods, etc.

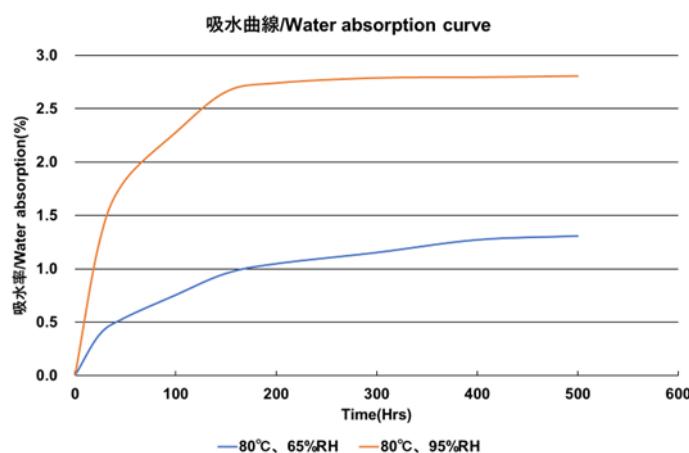
Spec · Quality

		Unit	GLAMIDE™ TY-791G60	General PA66-GF50
Features			High rigidity, Sliding	Standard
ISO Material Indication			>PA6+PA6I/X-GF60<	>PA66-GF50<
Density		g/cm³	1.72	1.57
Flexural strength		MPa	378	350
Flexural modulus		GPa	19.2	15.4
Charpy notched impact strength	-40°C	kJ/m²	11	11
	0°C	kJ/m²	15	15
	23°C	kJ/m²	17	16
Temperature of deflection under load	0.45MPa	°C	215	260
	1.8MPa	°C	205	255

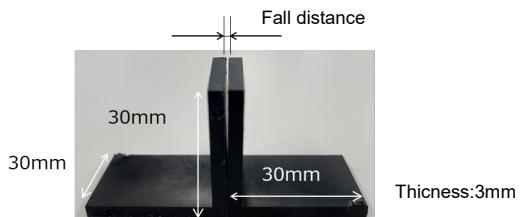
Flexural properties



Balances moisture



L-shaped collapse "90° right-angle"



	Fall distance
TY-791G60	2.2mm
PA66-GF50	2.8mm

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GLAMIDE™ High Rigidity and Low warpage Polyamide Resin 「TY-791HQ」

Features

- High rigidity
- Low warpage
- Good appearance
- Low Water Absorption

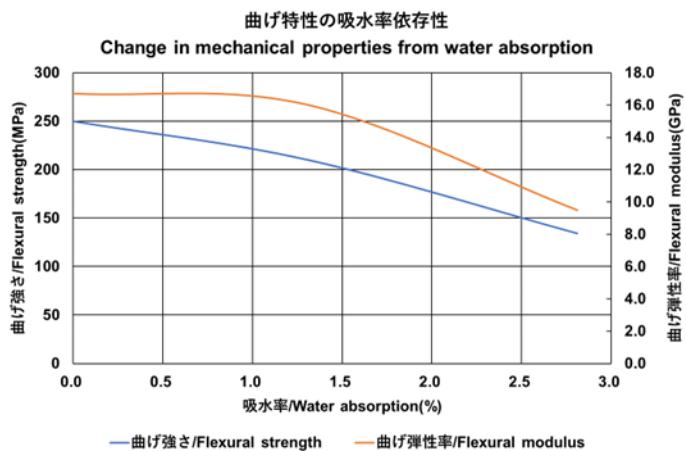
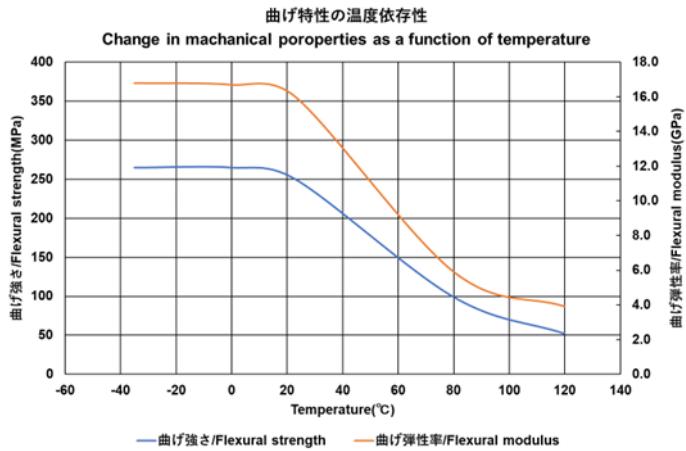
Applications

- Door mirror parts
- Console box hinge
- Engine cover
- Reel Parts etc.

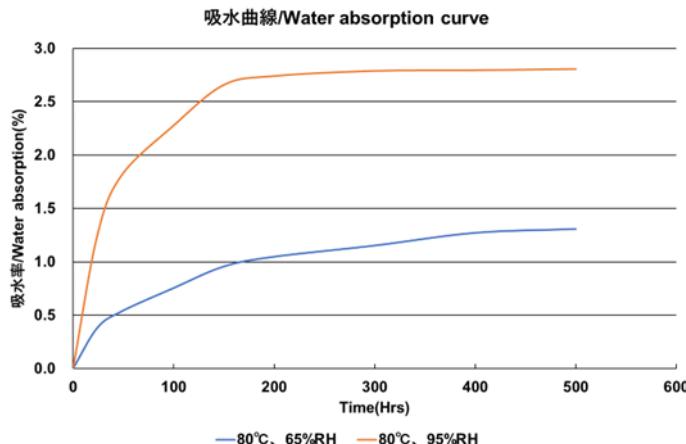
Spec · Quality

		Unit	GLAMIDE™ TY-791HQ	General PA6-GF30
Features			High rigidity, Low warpage	Standard
ISO Material Indication			>PA6+PA6I/X-(MD+GF)60<	>PA6-GF30<
Density	g/cm³		1.74	1.36
Flexural strength	MPa		250	218
Flexural modulus	GPa		16.7	8.0
Charpy notched impact strength	-40°C	kJ/m²	6.3	8.0
	0°C	kJ/m²	6.5	9.0
	23°C	kJ/m²	7.0	9.5
Temperature of deflection under load	0.45MPa	°C	210	220
	1.8MPa	°C	185	200

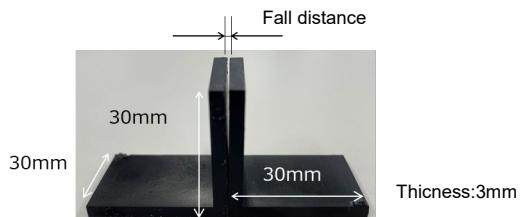
Flexural properties



Balances moisture



L-shaped collapse "90° right-angle"



	Fall distance
TY-791HQ	0.7mm
PA66-GF50	2.8mm

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GLAMIDE™ High impact polyamide resin "TY-722GDQ" and "TY-752GDQ"

Features

- "TY-722GDQ" ISO Material Indication : PA6-I-GF15
- "TY-752GDQ" ISO Material Indication : PA6-I-GF30
- High impact
- Low-temperature impact resistant
- Good appearance

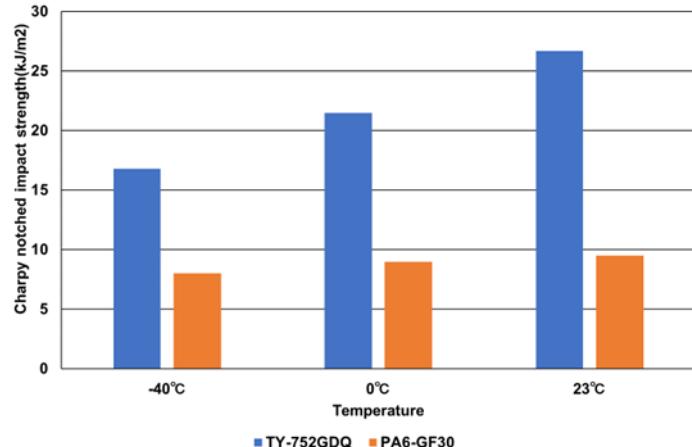
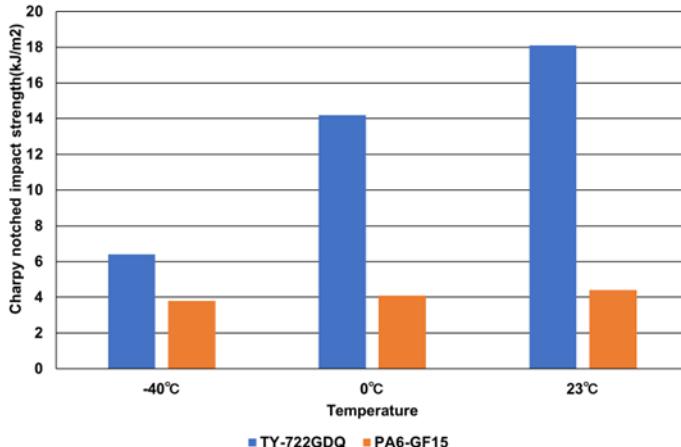
Applications

- Automotive parts
- Electrical and electronic parts
- Industrial parts
- Snowboard bindings
- Sporting goods, etc.

Spec · Quality

		Unit	GLAMIDE™ TY-722GDQ	General PA6-GF15	GLAMIDE™ TY-752GDQ	General PA6-GF30
Features			High impact Good appearance	Standard	High impact Good appearance	Standard
ISO Material Indication			>PA6-I-GF15<	>PA6-GF15<	>PA6-I-GF30<	>PA6-GF30<
Density	g/cm³		1.17	1.23	1.30	1.36
Flexural strength	MPa		121	152	203	218
Flexural modulus	GPa		3.5	4.5	6.9	8.0
Charpy notched impact strength	-40°C	kJ/m²	6.4	3.8	16.8	8.0
	0°C	kJ/m²	14.2	4.1	21.5	9.0
	23°C	kJ/m²	18.1	4.4	26.7	9.5
Temperature of deflection under load	0.45M Pa	°C	210	215	215	220
	1.8 MPa	°C	180	190	190	200

Impact resistant



*Values and properties listed here are typical values, not guaranteed values.

GLAMIDE™ Ultra-High Rigidity Polyamide Resin "JF-30G"

Features

- World-class GF reinforced material with flexural modulus of 26.5GPa
- Ultra-high strength: Flexural strength of 470MPa is stronger than metal and CFRP
- Ultra-high impact resistance: Outstanding impact strength (Charpy) of 38kJ/m² plus
- Attractive appearance: High gloss even with high GF filling
- Low warpage and outstanding dimensional precision

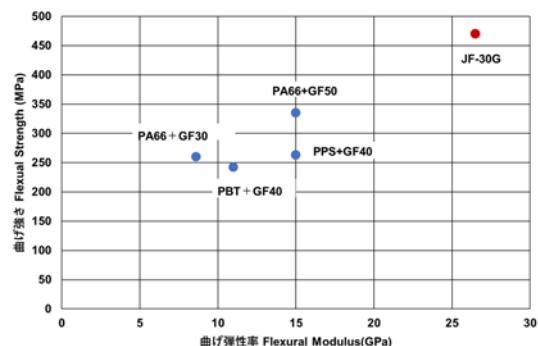
Applications

- Door mirror parts
- Automotive pedals
- Gear
- Resin screws
- Leisure goods such as fishing tackle, etc.

Spec • Quality

	GLAMIDE™ JF-30G	General PA66-GF50
Features	Ultra-high rigidity High impact resistance Low sled Low water absorption Good appearance	High rigidity
ISO Material Indication	>PAMXD6+PA66-GF70<	>PA66-GF50<
Density(g/cm ³)	1.87	1.57
Flexural strength(MPa)	470	350
Flexural modulus(GPa)	26.5	15.4
Charpy impact(kJ/m ²)	38	16

Comparison with injection materials



Advantages of switching to JF-30G

- Lightweight. Depending on shape and product quality, weight reduction is possible.
- Creativity. Manufacture products with complex shapes and reduced number of parts.
- No burr treatment during die-cast manufacturing.
- Shorten processing time and reduce manpower.
- Chemical resistance
- Insulating properties
- Rust resistance

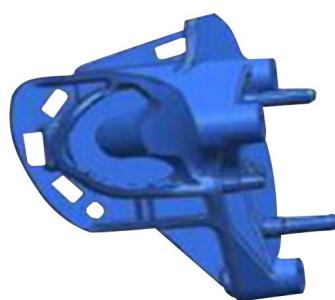
	Density(g/cm ³)
GLAMIDE™ JF-30G	1.87
Die-cast aluminum	About 2.7
Zinc die-cast	About 6.6
Stainless Steel(SUS)	About 7.7~8.0

Examples of Consideration

Formulate optimal geometry with topology analysis



Die-cast aluminum



JF-30G

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