

LEONA™ - Polyamide 66 (PA66) with excellent surface appearance



Lightweight



Electrification



Safety / Comfort

Application Areas

- Automotive industry (engine cover, wiper arms, venting blades, mirror brackets, chain guides)
- Electronic industry
- Parts for office furniture
- Industrial applications (water appliances)

Solution / Innovation for the Industry

- Ideal for metal replacement
- Omits protective coating due to excellent appearance and UV resistance

	Reinforcement	Glass Fibre				Mineral Filler
		GF33%	GF50%	GF55%	GF60%	GF/MF
	Unit	90G33	90G50	90G55	90G60	91G60
Specific gravity	g/cm ³	1.39	1.58	1.64	1.72	1.72
Tensile stress at break	MPa	180	232	244	246	185
Tensile strain at break	%	2.5	3	3	3	1.5
Flexural strength	MPa	238	355	394	397	285
Flexural modulus	GPa	9.6	14.2	15.4	18.7	17
Charpy impact strength, notched	kJ/m ²	6	14	13	14	6
Temp. of distortion under load (°C MPa)	°C	219	225	225	221	200
Mold shrinkage	%	0.4/0.9	0.2/0.5	0.2/0.5	0.2/0.5	0.2/0.6

Features of the LEONA™ 9xG Series

LEONA™ PA66 is an engineering plastics superior in heat resistance, strength, rigidity and other key properties. It is widely used in the production of automotive components.

The LEONA™ 9xG series features excellent surface appearance, UV-resistance and superior mechanical properties.

LEONA™ 1442 and 1542 grades were developed to meet advanced market requirements featuring an extremely low friction resulting in a longer life span of the parts. In addition to being self-lubricating, achieved by improving the PTFE dispersion, LEONA™ 1442 and 1542 grades offer high stiffness and excellent abrasion resistance compared to standard engineering resins.

Asahi Kasei is market leader for PA66 in Japan and one of four fully integrated PA66 producers worldwide.

Key Properties

- High structural strength
- Stiffness
- Good impact / toughness
- Excellent surface quality
- Oil and chemical resistance
- Heat and chlorine resistance
- UV-resistance

For further information click [here](#)