

LEONA™ Polyamide 6.6 and Semi-Aromatic Polyamide Resin



Lightweight



Electrification



Safety / Comfort

Application Areas

- Automotive industry (engine covers, mirror brackets, chain guides)
- Electronic industry
- Industrial applications (water appliances)

Solution / Innovation for the Industry

- Ideal for metal replacement
- Omits protective coating due to excellent surface appearance and UV resistance
- Stiffness and toughness in wet conditions and at high temperatures

	Unit	14G50		90G50		SG105	
		dry	50% RH	dry	50% RH	dry	50% RH
Specific gravity	g/cm ³	1.58	-	1.58	-	1.59	-
Tensile stress	MPa	237	183	235	171	270	230
Tensile strain	%	2.0	4.0	3.0	4.0	2.5	2.5
Flexural strength	MPa	371	269	355	270	380	350
Flexural modulus	GPa	13.6	11.0	14.2	13.1	16.0	15.0
Charpy impact strength	kJ/m ²	14.0	21.0	14.0	15.0	17.0	17.0

Features of different LEONA™ grades

LEONA™ PA 6.6 is an engineering plastics superior in various key properties. It is widely used as a metal replacement for automotive components.

The LEONA™ 90G series features excellent surface appearance, UV-resistance and superior mechanical properties.

The LEONA™ SG series is a promising material as substitute for aluminium die-casts. It is suitable for interior- and exterior automotive applications. Asahi Kasei will continue to expand its line-up including flame retardant and weather resistant grades.

Asahi Kasei is market leader for PA 66 in Japan and one of four fully integrated PA 66 producers worldwide.

Key Properties

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