



## Material Data Sheet

# PLMPA-4 | PA4 (PA6+40%GF)

### General Information

PLMPA-4 (Polyamide 6 with 40% Glass fiber) is a high-performance engineering plastic material that combines high mechanical strength, stiffness and good dimensional stability.

The incorporation of glass fibers significantly improves wear and creep resistance and increases load-bearing capacity compared to unreinforced PA6. The material also provides good thermal stability and resistance to many lubricants and chemicals.

PLMPA-4 (PA4) is typically used for sliding and guide ring elements, wear and bearing bushes as well as wear-resistant components, where high strength and durability under mechanical stress are required.

### Physical properties

Colour:			Black
Hardness:	ASTM D785	M scale	95
Density:	ASTM D792	g/cm <sup>3</sup>	1.46+/-0.03
Tensile Strength:	ASTM D638	MPa	≥155
Tensile Elongation:	ASTM D638	%	≥2.0
Tensile Modulus	ASTM D638	MPa	≥9000
Flexural Strength	ASTM D790	MPa	≥230
Flexural Modulus	ASTM D790	MPa	≥9000
Izod impact strength, notched, +23°C:	ASTM D256	J/m	≥70
Min.service temperature:	-	°C	-40
Max.service temperature:	-	°C	135

### Remark

All test methods and values mentioned above are corresponding to ASTM standards. The properties have been determined on standardized test specimen and can not be directly related to any component or finished item. All tests are made under laboratory conditions.

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