



Material Data Sheet

PLMPA-3 | PA3 (PA6+40%GF+15%PTFE)

General Information

PLMPA-3 (Polyamide 6 with 40% Glass fiber and 15% PTFE) is a high-performance engineering plastic material that combines excellent mechanical strength, low friction properties and good dimensional stability.

The glass fiber reinforcement provides high stiffness, outstanding wear and creep resistance, while the PTFE filler ensures outstanding sliding behavior and low coefficient of friction. This material also maintains good chemical resistance and thermal stability.

PLMPA-3 (PA3) is typically used for sliding and guide ring elements, wear and bearing bushes as well as wear-resistant components, especially where low friction, high load capacity and long service life are required.

Physical properties

Colour:			Black
Hardness:	ASTM D785	M scale	105
Density:	ASTM D792	g/cm ³	1.60+/-0.03
Tensile Strength:	ASTM D638	MPa	152
Tensile Elongation:	ASTM D638	%	2.5
Tensile Modulus	ASTM D638	MPa	12411
Flexural Strength	ASTM D790	MPa	241
Flexural Modulus	ASTM D790	MPa	11722
Izod impact strength, notched, +23°C:	ASTM D256	J/m	128
Izod impact strength, unnotched, +23°C:	ASTM D4812	J/m	908
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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