



Material Data Sheet

PLMPEEK-1

General Information

PLMPEEK-1 is a high-performance advanced thermoplastic material. Its highest working temperature far exceeds that of most other plastics, and it also has excellent dimensional stability, creep resistance, relaxation resistance, high tensile strength, good sliding properties, and wear resistance. It is mainly used in conditions where other standard materials cannot meet the requirements of temperature resistance or mechanical strength.

Physical properties

Colour :			Creamy white
Hardness :	DIN EN ISO 868 (3 sec)	Shore D	87 +/-3
Density :	DIN EN ISO 1183-1	g/cm ³	1.41+/-0.02
Tensile strength :	ISO 527-2	N/mm ²	≥110
Elongation at break	ISO 527-1	%	≥45
Tensile modulus :	ISO 527-2	N/mm	≥4500
Min.service temperature:	ISO 11357-2	°C	-100
Max.service temperature:	ISO 11357-2	°C	260

Remark

All test methods and values mentioned above are corresponding to ISO or DIN 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. The mentioned values are nominal values and must be fulfilled – considering related tolerances – for each material batch.

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