



Material Data Sheet

PLMTAL-1

General Information

PLMTAL-1 is a semi-crystalline copolymerized formaldehyde POM that can be used in extrusion rings, guide rings, bushings and precision components with strict tolerances. PLMTAL-1 material has good mechanical properties, low water absorption and good chemical resistance. It can be used in mineral oils and water-based fire resistant hydraulic fluids (HFA, HFB and HFC). Resistant to concentrated acids and alkalis.

Physical properties

Colour :			White
Hardness :	DIN EN ISO 868 (3 sec)	Shore D	82 +/-3
Density :	DIN EN ISO 1183-1	g/cm ³	1.41+/-0.02
Tensile strength :	ISO 527-2	N/mm ²	≥70
Elongation at break	ISO 527-1	%	≥27
Tensile modulus :	ISO 527-2	N/mm	≥5000
Min.service temperature:	ISO 11357-2	°C	-50
Max.service temperature:	ISO 11357-2	°C	100

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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