



Material Data Sheet

PLMPUR-XSL | P1205 (TPU)

General Information

PLMPUR-XSL is a hydrolysis-resistant thermoplastic polyurethane elastomer based on Polycarbonate polyol and filled with solid lubricants.

Compared to PLMPUR-SL, this material offers higher hardness and greater compressive strength, further enhancing its sliding performance.

PLMPUR-XSL can be used as a replacement for PLMPUR-X or PLMPUR-XH in conditions with poor lubrication or even dry running conditions.

Physical properties

Colour :			Black
Hardness :	DIN ISO 48-4 (3 sec)	Shore A	97 +/-2
Hardness :	DIN ISO 48-4 (3 sec)	Shore D	60 +/-2
Density :	DIN EN ISO 1183-1	g/cm ³	1.20+/-0.02
100% Modulus :	DIN53504	N/mm ²	≥20
Tensile strength :	DIN53504	N/mm ²	≥48
Elongation at break	DIN53504	%	≥300
Tear strength :	DIN ISO 34-1	N/mm	≥140
*Compression set : 24h/70°C	DIN ISO 815	%	≤27
**Compression set : 24h/100°C	DIN ISO 815	%	≤33
Abrasion :	DIN ISO4649	mm ³	≤18
Min.service temperature:	ISO 11357-2	°C	-20
Max.service temperature:	ISO 11357-2	°C	115

* 24 h 70°C 20% deflection/** 24 h 100°C 20% deflection

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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