



Material Data Sheet

PLMPUR-LT | P1401 (TPU)

General Information

PLMPUR-LT is a thermoplastic polyurethane elastomer based on a special grade of Polycaprolactone polyol, designed to meet the demands of low temperature applications.

This material has similar mechanical properties to PLMPUR, but combines them with excellent low temperature performance.

PLMPUR-LT is primarily used in sealing applications that require high mechanical performance and wear resistance, with application temperatures as low as -50°C.

Physical properties

Colour:			Blue
Hardness:	DIN ISO 7619 (3 sec)	Shore A	95 +/-2
Hardness:	DIN ISO 7619 (3 sec)	Shore D	48 +/-2
Density:	DIN EN ISO 1183-1	g/cm ³	1.16+/-0.02
100% Modulus:	DIN53504	N/mm ²	≥11
Tensile strength:	DIN53504	N/mm ²	≥45
Elongation at break:	DIN53504	%	≥430
Tear strength:	DIN ISO 34-1	N/mm	≥110
Compression set: 24h/70°C*	DIN ISO 815	%	≤27
Compression set: 24h/100°C**	DIN ISO 815	%	≤33
Abrasion:	DIN ISO4649	mm ³	≤17
Min.service temperature:	ISO 11357-2	°C	-50
Max.service temperature:	ISO 11357-2	°C	110

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

Remark

All test methods and values mentioned above are corresponding to ISO and/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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