



Material Data Sheet

PLMPUR-H | P1201 (TPU)

General Information

PLMPUR-H is a hydrolysis-resistant thermoplastic polyurethane elastomer based on Polycarbonate polyol. Compared to PLMPUR, this material has similar mechanical properties, but offers good water resistance as well as good compatibility against biologically degradable and fire resistant fluids.

PLMPUR-H is mainly used in seal applications that require hydrolysis resistance and resistance to other chemicals, such as polar hydraulic fluids, while also demanding high mechanical performance and wear resistance.

Physical properties

Colour:			Red
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	1.18+/-0.02
100% Modulus:	DIN53504	N/mm ²	≥12
Tensile strength:	DIN53504	N/mm ²	≥50
Elongation at break:	DIN53504	%	≥350
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	-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 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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