



## Material Data Sheet

# PLMPUR-XH | P1204 (TPU)

### General Information

PLMPUR-XH is a hydrolysis-resistant thermoplastic polyurethane elastomer based on Polycarbonate polyol.

Compared to PLMPUR-H, this material has a higher hardness, higher pressure resistance and excellent friction and wear performance.

Due to its good hydrolysis resistance and chemical resistance, this material is best suited for composite seals in chemically corrosive working fluids (such as water-based pressure fluids and mineral oils with additives).

### Physical properties

Colour:			Dark Red
Hardness:	DIN ISO 7619 (3 sec)	Shore A	97 +/-2
Hardness:	DIN ISO 7619 (3 sec)	Shore D	60 +/-2
Density:	DIN EN ISO 1183-1	g/cm <sup>3</sup>	1.22+/-0.02
100% Modulus:	DIN53504	N/mm <sup>2</sup>	≥20
Tensile strength:	DIN53504	N/mm <sup>2</sup>	≥50
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 <sup>3</sup>	≤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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