

## Material Data Sheet

# PLMPUR-H LD (CPU)

### General Information

PLMPUR-H LD is a hydrolysis-resistant polyurethane elastomer made by casting process (CPU). The material shows similar mechanical properties and chemical resistance as PLMPUR-H, since it is based on the same raw material composition (based on Polycarbonate polyol). Therefore PLMPUR-H LD can be used in the same hydraulic fluids as PLMPUR-H. Generally, PLMPUR-H LD is used for seals with a diameter range of above 600 mm or also for special seal designs.

### 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 <sup>3</sup>	1.18+/-0.02
100% Modulus:	DIN53504	N/mm <sup>2</sup>	≥13
Tensile strength:	DIN53504	N/mm <sup>2</sup>	≥50
Elongation at break:	DIN53504	%	≥320
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	%	≤35
Abrasion:	DIN ISO4649	mm <sup>3</sup>	≤17
Min.service temperature:	ISO 11357-2	°C	-20
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 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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