

MATERIAL DATA SHEET

LT-PU

LT-PU is a MDI based thermoplastic and casted polyurethane system (TPU + CPU) which has been specially modified and developed for sealing applications. LT-PU has been optimized in regards to its mechanical properties and stability at very low application temperatures (-50°C). It has high tensile strength, very high abrasion resistance, low hysteresis and low compression-set.

MECHANICAL | ELECTRICAL | THERMAL PROPERTIES

Colour:			blue
Hardness at 20°:	DIN 53505	Shore A	95 +/-3
Density:	DIN ISO 1183-1	g/cm ³	1.18
100% Modulus:	DIN 53504	N/mm ²	> 12
300% Modulus:	DIN 53504	N/mm ²	> /
Tensile strength:	DIN 53504	N/mm ²	> 48
Elongation at break:	DIN 53504	%	> 440
Rebound resilience:	DIN 53512	%	> 48
Tear strength:	DIN ISO 34-1	N/mm ²	> 75
Abrasion:	DIN 53516	mm ³	< 40
Compression set:*	DIN ISO 815-1	%	< 20
Compression set:**	DIN 53517	%	< /
Compression set:***	DIN 53517	%	< /
Compression set:****	DIN 53517	%	< 40
Min. service temperature:		°C	- 50
Max. service temperature (short term):		°C	+ 110
Tg Glass Transition Temp.:		°C	- 42

* Compression set @ 70°C, 70 hours, 10% deflexion

** Compression set @ 70°C, 24 hours, 20% deflexion

*** Compression set @ 100°C, 24 hours, 20% deflexion

**** Compression set @ -40°C, 70 hours, 10% deflexion

REMARK

All test methods and values mentioned above are corresponding to ASTM | DIN | ISO standards and have been tested on standardized plates in the laboratory. All tests are made under laboratory conditions.