

HT-PU thermoplastic polyurethane with higher temperature stability
 Mechanical, Physical and Thermal Properties

properties	condition	standard	unit		unit	
colour				orange		orange
hardness	23°C	ISO 868	Shore A	96 ± 2	Shore A	96 ± 2
hardness	23°C	ISO 868	Shore D	50 ± 3	Shore D	50 ± 3
modulus 100%	23°C	DIN 53 504	MPa	≥ 10	psi	≥ 1450
modulus 300%	23°C	DIN 53 504	MPa	≥ 25	psi	≥ 3625
tensile strength	23°C	DIN 53 504	MPa	≥ 45	psi	≥ 6525
elongation at break	23°C	DIN 53 504	%	≥ 350	%	≥ 350
tear strength	23°C	DIN ISO 34-1	kN/m	≥ 110	lbf/inch	≥ 450
spec. gravity	23°C	ISO 1183	kg/m ³	1160	g/cm ³	1,16±0,03
compression set	*	ISO 815	%	≤ 25	%	≤ 25
compression set	**	ISO 815	%	≤ 30	%	≤ 30
minimum service temperature			°C	-30	°F	-22
maximum service temperature			°C	135	°F	275
maximum service temperature - shortly			°C	150	°F	300

* 24h 70°C 25% def.

** 24h 100°C 25% def.

Chemical Properties

Copolymer, based on aromatic isocyanate and diols and internal lubricants

Resistant to oil, hot water, hot air, ozone

Not resistant to conc. acids, conc. lyes, conc. alcohols and aromatic solvents