

# P10 - TPU with higher temperature stability

## Mechanical, Physical and Thermal Properties

PROPERTIES	CONDITION	STANDARD	UNIT		UNIT	
Colour				Orange		Orange
hardness	23°C	ISO 868	Shore A	94 ± 2	Shore A	94 ± 2
hardness	23°C/3 sek.	ISO 868	Shore D	45 ± 3	Shore D	45 ± 3
hardness	23°C/15 sek.	ISO 868	Shore D		Shore D	
modulus 100%	23°C	DIN 53 504	MPa	≥ 11	psi	≥ 1595
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	%	≥ 340	%	≥ 340
tear strength		DIN ISO 34-1	kN/m		lbf/inch	
spec. gravity	23°C	ISO 1183	kg/m <sup>3</sup>	1190	g/cm <sup>3</sup>	1,19
abrasion		DIN 53 516	mm <sup>3</sup>		mm <sup>3</sup>	
compression set	*	ISO 815	%	≤ 36	%	≤ 36
compression set		ISO 815	%		%	
minimum service temperature			°C	-30	°F	-22
maximum service temperature			°C	135	°F	275

\* 24h 70°C 25% def. \*\* 24h 100°C 25% def. \*\*\* 24h 150°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