

P12 - TPE Hytrel Orange

Mechanical, Physical and Thermal Properties

PROPERTIES	CONDITION	STANDARD	UNIT		UNIT	
Colour				orange		orange
hardness	23°C	ISO 868	Shore A		Shore A	
hardness	23°C/3 sek.	ISO 868	Shore D	54 ± 3	Shore D	54 ± 3
hardness	23°C/15 sek	ISO 868	Shore D	54 ± 3	Shore D	54 ± 3
modulus 100%	23°C	DIN 53 504	MPa	≥ 15	psi	≥ 2175
modulus 300 %	23°C	DIN 53 504	MPa		psi	
tensile strength	23°C	DIN 53 504	MPa	≥ 28	psi	≥ 4060
elongation at break	23°C	DIN 53 504	%	≥ 300	%	≥ 300
tear strength	23°C	DIN ISO 34-1	kN/m	124	lbf/inch	705
spec. gravity	23°C	ISO 1183	kg/m ³	1190	g/cm ³	1,19
abrasion		DIN 53 516	mm ³	120	mm ³	120
compression set	*	ISO 815	%	≤ 60	%	≤ 60
compression set	**	ISO 815	%		%	
minimum service temperature			°C	-30	°F	-22
maximum service temperature			°C	120	°F	248

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

Chemical Properties

Thermoplastic Polyester Elastomer (TPC-ET)

specially stabilized version for superior heat and oil resistance properties