

P08 - C-HPU

thermoplastic polyurethane with resistance to hydrolysis

Mechanical, Physical and Thermal Properties

PROPERTIES	CONDITION	STANDARD	UNIT		UNIT	
Colour				red		red
hardness	23°C	ISO 868	Shore A	96 ± 2	Shore A	96 ± 2
hardness	23°C/3 sek.	ISO 868	Shore D	50 ± 3	Shore D	50 ± 3
hardness	23°C/15 sek.	ISO 868	Shore D	48 ± 3	Shore D	48 ± 3
modulus 100%	23°C	DIN 53 504	MPa	≥ 11	psi	≥ 1595
modulus 300 %	23°C	DIN 53 504	MPa	≥ 22	psi	≥ 3190
tensile strength	23°C	DIN 53 504	MPa	≥ 45	psi	≥ 6525
elongation at break	23°C	DIN 53 504	%	≥ 450	%	≥ 450
tear strength	23°C	DIN ISO 34-1	kN/m	≥ 80	lbf/inch	≥ 450
spec. gravity	23°C	ISO 1183	kg/m ³	1110 ± 20	g/cm ³	1,11± 0,02
abrasion		DIN 53 516	mm ³	20	mm ³	20
compression set	*	ISO 815	%	≤ 30	%	≤ 30
compression set	**	ISO 815	%	≤ 35	%	≤ 35
minimum service temperature			°C	-37	°F	-35
maximum service temperature			°C	110	°F	230

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

Chemical Properties

Copolymer, based on aromatic isocyanate and diols

Resistant to oil, water, ozone, microbes

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