

C-HPU 57D thermoplastic polyurethane with resistance to hydrolysis
 Mechanical, Physical and Thermal Properties

properties	condition	standard	unit		unit	
colour				yellow		yellow
hardness	23°C	ISO 868	Shore A		Shore A	
hardness	23°C	ISO 868	Shore D	57 ± 3	Shore D	57 ± 3
modulus 100%	23°C	DIN 53 504	MPa	≥ 20	psi	≥ 2900
modulus 300 %	23°C	DIN 53 504	MPa	≥ 33	psi	≥ 4785
tensile strength	23°C	DIN 53 504	MPa	≥ 45	psi	≥ 6530
elongation at break	23°C	DIN 53 504	%	≥ 350	%	≥ 350
tear strength	23°C	DIN ISO 34-1	kN/m	≥ 110	lbf/inch	≥ 630
spec. gravity	23°C	ISO 1183	kg/m ³	1160	g/cm ³	1,16
abrasion	23°C	DIN 53 516	mm ³	25	mm ³	25
compression set	*	ISO 815	%	≤ 30	%	≤ 30
compression set	**	ISO 815	%	≤ 35	%	≤ 35
minimum service temperature			°C	-30	°F	-22
maximum service temperature			°C	110	°F	240

* 24h 70°C 25% def.

** 24h 100°C 25% def.

Chemical Properties

Copolymer, based on aromatic isocyanate and diols

Resistant to oil, hot water, ozone, microbes

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

Foodstuff approval: -