

H-PU 95 Shore A light red FDA

Thermoplastic polyurethane resistant against hydrolysis

H-PU light red is a universal sealing material used for many applications. It has a wide service temperature range, high elasticity, very good abrasion, and extrusion characteristics. Its machinability is described as excellent. FDA approved - Certificate: EU1935-2004

Mechanical, physical and thermal properties

Material code: 0100H

Properties	Condition	Standard	Unit	Unit		
Color				Light red		
Hardness	23°C	ISO 868	Shore A	95 ± 2		
Hardness	23°C/3 sec.	ISO 868	Shore D	48 ± 3		
	23°C/15 sec.		Shore D	45 ± 3		
Modulus 100%	23°C	DIN 53 504	MPa	≥15	psi	≥2175
Modulus 300%	23°C	DIN 53 504	MPa	≥28	psi	≥4160
Tensile strength	23°C	DIN 53 504	MPa	≥50	psi	≥7250
Elongation at break	23°C	DIN 53 504	%	≥350		
Tear strength	23°C	DIN ISO 34-1 Method B	kN/m	≥110	lbf/inch	≥570
Specific gravity	23°C	ISO 1183	kg/m ³	1200	g/cm ³	1,2
Abrasion	23°C	DIN 53 516	mm ³	17		
Compression set	*	ISO 815	%	≤27		
Compression set	**	ISO 815	%	≤33		
Minimum service temperature			°C	-20	°F	-4
Maximum service temperature			°C	115	°F	240
*24h 70°C 25% deflection		** 24h 100°C 25% deflection				

Chemical Properties:

Copolymer, based on aromatic isocyanate and diols

Resistant to: mineral oils and fats, hydraulic fluids, petrol, hot water up to +90°C, hot air, ozone, synthetic and native esters, oil, petrol, hot water, hot air, ozone, synthetic and native esters

Not resistant to: conc. acids, conc. lyes, conc. alcohols and aromatic solvents, hot steam, alkalis, amines

FDA approved