

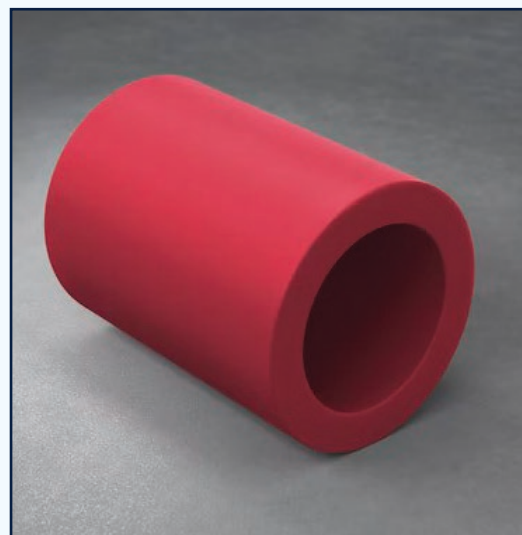
Polyurethan H-PU 95 Sh.A

Material data sheet

Material H-PU 95 Sh.A can be used for working temperature from 20°C to +115°C.

It is a universally applicable material for the production of sealing elements, which stands out for its own mechanical properties, high abrasion resistance, elasticity and other parameters. The material has an FDA certificate (10/2011 EC), so it can be used in the food industry as well.

It is resistant to low-polar and non-polar substances - mineral oils (lubricants, hydraulic oils, fuels) vegetable and animal fats, aliphatic hydrocarbons, HFA, HFB and HFC fluids. It is also suitable for long-term use in water (it is resistant to hydrolysis) and for diluted inorganic acids and alkalis.



It is not resistant to aromatic and polar solvents and concentrated acids and alkalis. A detailed chemical resistance table is available on request.

Properties	Condition	Norm	Metric		Imperial	
			Unit	Value	Unit	Value
Colour				red		red
Hardness	23 °C	ISO 868	Shore A	95 ±2	Shore A	95 ±2
Hardness	23 °C / 3 sec	ISO 868	Shore D	48 ± 3	Shore D	48 ± 3
Hardness	23 °C / 15 sec	ISO 868	Shore D	45 ± 3	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	%	≥ 350
Tear strength	23 °C	DIN ISO34-1	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	mm ³	17
Compression set, 24h, 70°C, 25% def.		ISO 815	%	≤ 27	%	≤ 27
Compression set, 24h, 100°C, 25% def.		ISO 815	%	≤ 33	%	≤ 33
Minimal long-term service temperature			°C	-20	°F	-4
Maximal long-term service temperature			°C	115	°F	240



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