



**SUPER 95
SUPER POLYMER**

Design Description

Prinz Polymers range of super polymers are a cut above the rest as they are thermoset and spin cast. The thermoset polyurethane has a wide range of properties, including fluid and moisture resistance. Polyurethane seals offer outstanding performance in high pressure hydraulic systems with abrasive contamination, high shock loads, and related adverse conditions.

Super 95 polymer is Hydrolysis resistant, UV resistant and has superior mineral oil compatibility as well as great resistance to ozone attack and weathering. This high performance material is triple lubricated. It is able to maximize its elasticity and is very effective in fast operating cycles. Their excellent temperature characteristics have proven itself in tough application situations.

Features

- Outstanding toughness & abrasion for high pressure applications
- Mineral oil compatibility is good
- Good resistance to ozone attack & weathering
- High performance polyurethane

Properties	Specified	Unit	Value
Hardness	DIN 53505	Shore A	95 ±2
Hardness	DIN 53505	Shore D	46 ±2
Density	DIN 53479	g/cm ³	1.2
Tensile strength	DIN 53504	N/mm ²	48
Elongation at break	DIN 53504	%	420
Stress ratio 100%	DIN 53504	N/mm ²	17
Stress ratio 300%	DIN 53504	N/mm ²	38
Compression set 20 °C/24h	DIN 53517	%	11
Compression set 70 °C/70h	DIN 53517	%	24
Tear strength	DIN 53515	N/mm	110
Elastic recovery	DIN 53512	%	26
Abrasion	DIN 53516	Mg loss	28
Minimum application temperature		°C	-50
Maximum application temperature		°C	150
Elongation at break after 2000h			420
Storage in distilled water at 95°C			420
Swell in water		%	0.3-0.4 n