



Via Emilia,292 – 40068 San Lazzaro di Savena (BO)

Tel. 0516258101/102 – Fax. 0516258098

www.sixten.it – sixten@sixten.it

Material Data Sheet U540-VI95-CR

Polyurethane U540-VI95-CR – violet (Chemical resist. Polyurethane)

General

U540-VI95-CR is a hydrolysis-resistant (H-PU), casted Polyurethane, based on MDI, Polycarbonate Polyol and certain additives. It is resistant against the common used CIP-fluids and shows low swelling effects in non-polar fluids like mineral oils or fatty foodstuff.

Physical properties

Density:	DIN 53479	g/cm ³	1,16 ±0,03
Hardness at 23°C:	DIN 53505	Shore A	95 ±2
Hardness at +100°C:	DIN 53505	Shore A	92 ±2
100% Modulus:	DIN 53504	N/mm ²	≥ 10
300% Modulus:	DIN 53504	N/mm ²	≥ 30
Tensile strength:	DIN 53504	N/mm ²	≥ 45
Elongation at break:	DIN 53504	%	≥ 300
Tear strength:	DIN 53515	kN/m	≥ 120
Compression set, 24h, 70°C, 25%:	DIN 53517	%	≤ 25
Compression set, 24h, 100°C, 25%:	DIN 53517	%	≤ 40

Temperature range: -30°C to 115°C

Chemical resistance

Resistant to: Water up to 90°C, CIP-fluids, Mineral Oils, Vegetable Oils, Ozone, Oxygen (cold), HFA fluids, HFB fluids, diluted Acids and Lyes

Not Resistant to: Steam, conc. Acids and Lyes, conc. Alcohols, Solvents, HFD fluids

Main application

Static and dynamic applications, mostly used for U-seals, wipers and packings up to 400 bar pressure in various applications. Especially in those where the combination of temperature, pressure and wear resistance of rubber materials reach their limits and improved chemical resistance is required. U540-VI95-CR can also be used in applications with contact to foodstuff, especially in such applications where the cleaning process with CIP fluids is done.

Available certificates

- Conform to (EC) No 1935/2004 and (EC) No 10/2011 (is in progress)
- Conform to positive list of FDA 21 CFR 177.1680 (is in progress)
- 3A sanitary standard (is in progress)