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Material Data Sheet U550-GM95

Polyurethane U550-GM95 – dark red (Low Friction Polyurethane)

General

U550-GM95 is a MoS₂ filled, hydrolysis-resistant (H-PU), casted Polyurethane, based on MDI, Polycarbonate Polyol and certain additives. It is recommended in application where reduced friction and poor lubrication is an issue. The material is able to reduce or eliminate the stick-slip effect when it appears.

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	93 ±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	%	≥ 320
Tear strength:	DIN 53515	kN/m	≥ 110
Compression set, 24h, 70°C, 25%:	DIN 53517	%	≤ 25
Compression set, 24h, 100°C, 25%:	DIN 53517	%	≤ 35

Temperature range: -30°C to 125°C

Chemical resistance

Resistant to: Water up to 90°C, Sea Water, Mineral Oils, Vegetable Oils, Silicone Oils, Ozone, Oxygen (cold), HFA fluids, HFB fluids

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

Main application

Dynamic applications, mostly used for U-seals, wipers, packings and rotary seals up to 400 bar pressure in standard hydraulics and applications with poor lubrication or even pneumatics. Due to its outstanding hydrolysis resistance it can be used in the most common hydraulic fluids, oil in water emulsions but also water power applications, applications in the mining industry and presses. U550-GM95 shall also be preferred in machinery with rough and worn sliding surfaces.