

Short designation	AU/EU
Brand name	Vulkollan® Bayflex®
Chemical description	Polyurethane
Mechanical properties	
Hardness range [Shore A/D]	60 - 90
Wear resistance	outstanding
Tensile strength [MPa]	20 - 50
Physical properties	
Density [g/cm <sup>3</sup> ]	1.25
Application temperatures	
Temperaturerange,short-term[°C]	-40 - 120
Temperaturerange,continuous[°C]	-25 - 80
Other properties	
FlammabilityaccordingtoUL94	burns (still HB)
Chemical resistance	
Mineral grease and oils	++
Petrol	o
Weak/strong acids	- / --
Weak/strong alkalis	-- / --
Perchloroethylene	--
Trichloroethylene	--
Acetone	--
Alcohols	--
Brake fluid	--
Hydrolysis resistance (hot water)	--

Weather/UV radiation	++
Main uses	<p>Polyurethane elastomers (AU/EU) are the elastomer versions of polyurethane (PUR). They are vulcanised materials and no longer have thermoplastic properties.</p> <p>They are characterised by:</p> <ul style="list-style-type: none"> <li>■ outstanding wear resistance</li> <li>■ high elasticity</li> <li>■ high impermeability</li> </ul> <p>The material is used primarily for wear-resistant seals in hydraulics (mineral oil) and as a buffer element in machine construction.</p>

++ very good / + good / o satisfactory / - moderate (significant change to properties) / -- unsuitable