

## Datasheet - ERLAN - polyurethane

**Erlan** is produced by poly-condensation of:

- A polyol
- A Diphenylmethan-4,4'-diisocyanat (**Desmodur® 44**)

The hardness of Erlan polyurethane is adjustable **from 65° Shore A to 60° Shore D**.

**Erlan** polyurethane doesn't reach completely the high quality level of VULKOLLAN, in particular under thermal or dynamic stress but can be applied for a very wide range of applications.

**Erlan** is our standard quality and is produced only in cast polyurethane.



### Mechanical properties of Erlan (based on Desmodur 44®)

Property	Test specification	Units	ERLAN hardness					
			65	78	84	90	96	97
Shore Hardness A	DIN 53505	-	65	78	84	90	96	97
Stress at 20% strain	DIN 53504	MPa	0,3	1,2	1,5	3,0	4,2	4,8
Stress at 300% strain	DIN 53504	MPa	4,4	7,0	9,0	14	17	19
Tensile strength	DIN 53504	MPa	27	35	34	30	30	30
Elongation at break	DIN 53504	%	600	520	620	500	450	450
Tear propagation resistance	DIN 53515	kN/m	21	40	47	80	70	80
Abrasion resistance	DIN 53516	mm <sup>3</sup>		37	33	44	37	33