

Datasheet - foamed Vulkollan®



Bumpers

PT-15® foam is excellent for shock absorption of light to medium loads at high frequencies. A cellular Vulkollan piece is able to be compressed up to 70% of its original height with minimal permanent set. PT-15® Foam parts are available in custom moulded shapes, as well as rod, sheet and tube.

Foamed Vulkollan characteristics

PT-15 Foam							
Type	15-35	15-40	15-50	15-50	15-55	15-60	
Density (kg/m ³)	350	400	450	500	550	600	DIN 53420
Tensile Strength (N/mm ²)	4	4.5	5.5	6.5	7.5	8	DIN 53455
Elongation (N/mm ²)	390	410	430	450	465	470	DIN 53455
Tear Resistance (kN/m)	8	10	12	14	18	20	DIBN 53515
Rebound (%)	70	70	70	70	70	70	DIN 53512
Compression (after 24 hours @ 70°C)	4.8	5.8	6.5	7.2	7.5	8.0	DIN 53572

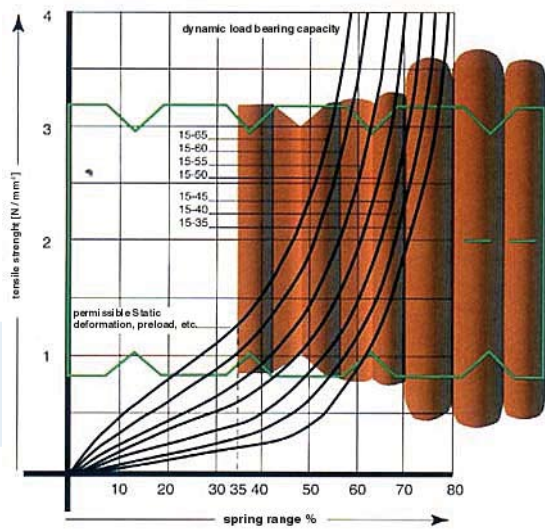
Main properties

- Great capacity of compression
- Good compression set

This information is, to the best of our knowledge, accurate and reliable to the date indicated. The above mentioned data have been obtained by tests we consider as reliable. We don't assure that the same results can be obtained in other laboratories, using different conditions by the preparation and evaluation of the samples.

- Force of recall raised even under continued load
- Good behaviour with abrasion
- Stability to ageing and atmospheric influences
- Chemical resistance to oils, lubricates, gasoline, ozone

Behavior of deformation under pressure



For example: PT 15-35 Foam (350 kg/m³) see graphic

The deformation is proportional to the tensile strength up to 35% of spring range.

Beyond 35% of deformation, the parameters are not proportional any more and the tension of compression increases more quickly

Tension/deformation characteristics

**Tension of deformation measured on a cube of 40 mm side
speed of deformation: 50 mm/min**

Density (kg/m ³)	Tensile strength (MPa) for a deformation of				
	20%	25%	30%	35%	40%
350	0,13	0,16	0,19	0,23	0,26
400	0,16	0,22	0,26	0,31	0,35
450	0,25	0,31	0,37	0,44	0,50
500	0,34	0,42	0,51	0,60	0,68
550	0,41	0,51	0,61	0,71	0,81
600	0,55	0,68	0,82	0,96	1,10