

Karbopak KL 380 gland packing

The packing based on phenoplasts is braided from high-performance synthetic fibre with high contents of carbon also named Kynol, Novoloid or phenolic fiber. The KL 380 packing is braided in square profiles with various sizes, which are impregnated with PTFE dispersion for improve friction and mechanical properties.

Properties and advantages

This packing has characteristic red-brown colour and excellent mechanical properties, which combine both: softness and high strength. Phenolic fiber and resin are characterised by low friction and are traditionally used for bushes and slide bearings. On the contrary to aramid, the KL packing does not cause excessive friction and wear of pump rotating elements.

Areas of application

The high-duty KL 380 packing is perfect for applications where graphite impregnation is unacceptable. This packing can be a good solution in difficult conditions, such as application for abrasive, easily crystallizing media as well as cellulose and paper pulp or suspension liquids. A good solution to protect the sealing rings set against an abrasive medium is the use of a KL 380 rope for the closing rings in a set together with PTFE packing.



Impregnation with white PTFE dispersion guarantees a low friction factor and good mechanical properties of the KL packing.

Operating parameters - KL 380

	Scope of application			
	Temperature	-40 to 200°C		
	p _{max} (bar)	40	200	200
	pH range	2 to 13 pH		
	V _L (m/s)	20	2	2
	Operating factors and use limits	Load ratio max pV ~ 400 bar·m/s Average bulk density ρ ~ 1,2 g/cc Minimal bush hardness ~ 30 HRC		

Range of sizes and packaging

The main range of Karbopak packing sizes are square profiles from S6 to S25, with a tolerance of -5 /+10%. These sizes are available for fast delivery directly from stock. The below table shows the conversion factors and the average length of a unit packages.

Karbopak packing is packed on spools of 2,5 or 5 kg, depending on the size, in accordance with the table below. The spools are packed in collective cartons of 20 kg net. Delivery on reusable wooden spools weighing from 20 to 30 kg is also possible. Large orders are delivery on pallets in the amount of 16 or 20 cartons with a total weight of 320 or 400 kg.



Square profiles [mm]	S6	S8	S10	S12	S14	S16	S18	S20	S22	S25
Linear mass weight [g/m]	50	83	125	175	240	310	390	490	590	770
Spool type	2,5 kg			5 kg			5 kg also 20 - 30 kg			
Converter to meters [m]	20	12	8	5,8	4,2	3,2	2,6	2	1,7	1,3
Roll length [m]	50	30	40	29	21	16	13	10	8,5	6,5