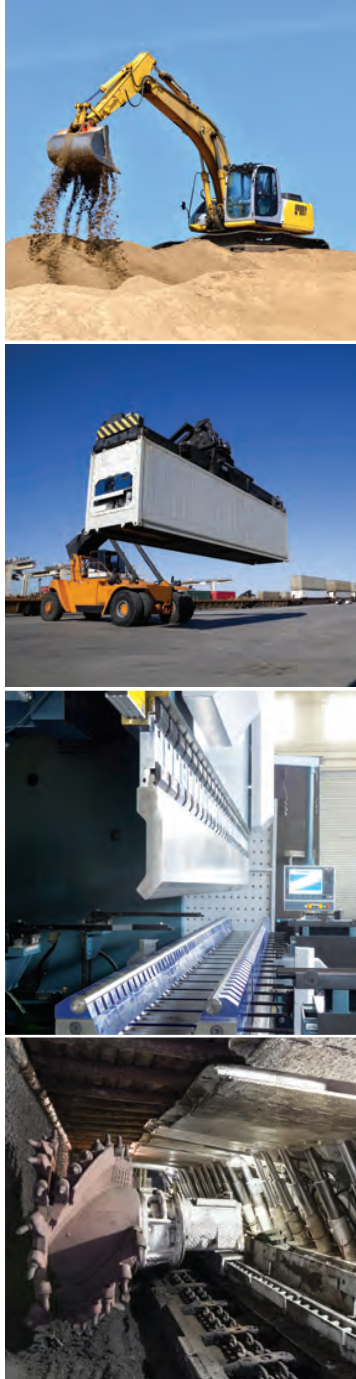




KKB

High Performance Guiding Tape

Kastaş Sealing Technologies





High Performance Guiding Tape

KKB High-performance guiding tape engineered with woven fabric-reinforced polyester resin material and state-of-the-art production technology to ensure superior wear resistance, stability, and load capacity.

KKB guiding tape is developed to provide reliable and efficient guidance in a wide range of hydraulic applications, for both rod and piston configurations, even under extreme side loads. Produced with state-of-the-art technology, KKB offers tight dimensional tolerances, low friction, and the best-in-class load-bearing capacity, delivering unmatched durability and precision.

Thanks to their excellent media compatibility, KKB guiding tape perform flawlessly across diverse hydraulic systems — from heavy-duty cylinders to industrial machinery, mobile hydraulics, and mining applications.

Available in two standard forms — coils and spirals, KKB guiding tape provide users the flexibility to cut to size, ensuring efficient assembly and reduced downtime.



- **Highest load-bearing capacity in its class**
- **Low Friction**
- **High dimensional and form stability**
- **Minimal swelling and wide media compatibility**
- **Precision manufacturing with tight tolerances**
- **Supplied in coils and spirals for cut-to-size flexibility**

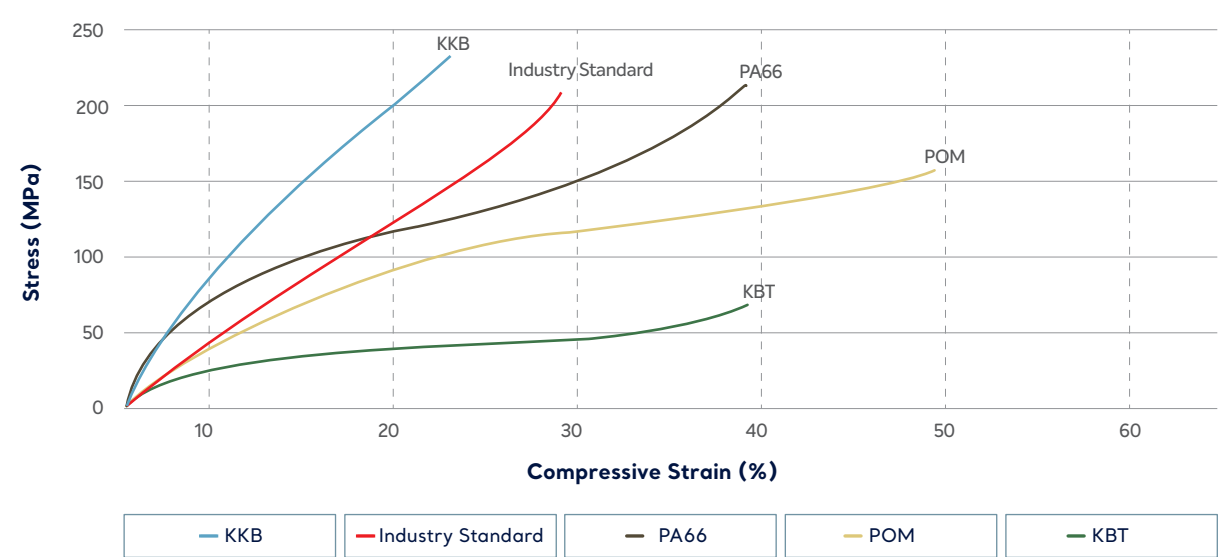
Material Comparison:

Hard fabric–reinforced guiding elements inherently provide superior load-bearing capacity compared to conventional thermoplastic guide rings such as PA and POM — a key performance criterion for any guiding element. However, not all fabric-reinforced resin materials deliver the same results. Differences in fabric type, resin formulation, and production quality can lead to significant variations in mechanical strength, dimensional stability, and long-term reliability.

KKB guiding tape, produced from PR6504, woven fabric reinforced with polyester resin using state-of-the-art manufacturing technology, not only surpass the performance of thermoplastic guide rings but also exceed the industry standard among polyester resin–based composites, offering the highest load-bearing performance in its class.



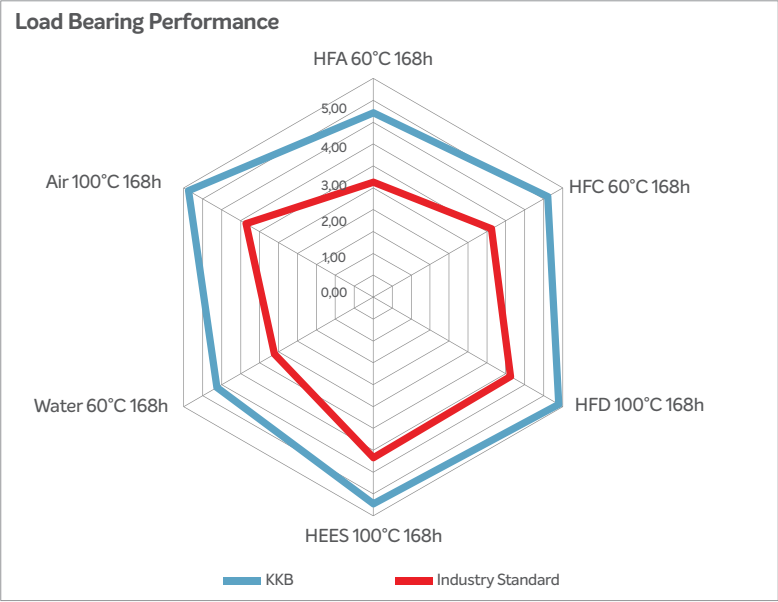
Compressive Stress-Strain: KKB and Industry Materials



KKB Redefines the Standard in Guiding Performance

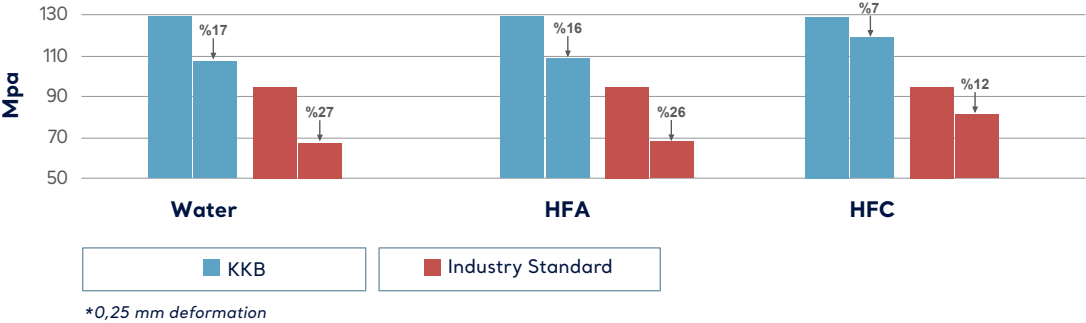
KKB guiding tape outperform both thermoplastic and conventional composite materials, setting a new benchmark for strength, precision, and reliability.

Material	SYNTHETIC FIBER, POLYESTER RESIN	
Material Code	PR6504	
Temperature Range	-40°C	120°C



Load Bearing Capacity:

(Aging Test 60°C /168h)



Media Compatibility:

Fluid Category	Fluid Type / Description	Media Compatibility
Mineral Oil-Based Fluids	Hydraulic Oil (ISO VG 32–68)	Excellent
Water-Containing Fluids	HFA – Water-in-Oil Emulsion (5/95)	Good
	HFB – Inverted Emulsion (60/40)	Excellent
	HFC – Water Glycol Solution	Very Good
	Water	Good
Other Fluid Types	Air	Excellent
	HFD – Phosphate Ester (Aryl Type)	Excellent
	Synthetic Esters (HEES, HFDU)	Excellent

KKB maintains its form stability and load-bearing performance significantly better than comparable materials when operating temperatures exceed 80°C, ensuring reliable guidance even under thermal stress.

Wide Range of Applications – Beyond Its Class

KKB high-performance guiding tapes are a preferred choice across a wide range of hydraulic applications, and they particularly excel in non-standard housings, large-diameter systems, and maintenance or repair operations of heavy-duty cylinders.

KKB’s advanced material formulation ensures exceptional versatility and reliability across a wide range of hydraulic media, including water-based fluids, where conventional materials often show limitations.



Mobile Machinery



Excavators



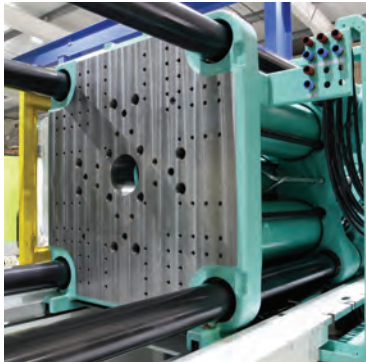
Hydraulic Presses



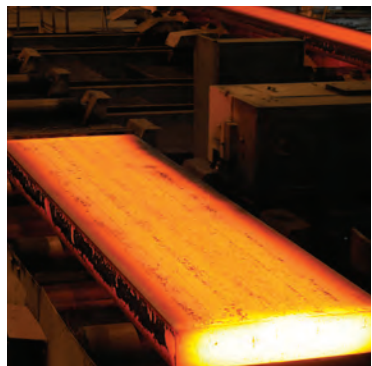
Mining Industry



Heavy Duty Cylinders



Injection Moulding Machines



Iron and Steel Industry



Loader Cranes



Support Cylinders



KKB

High Performance Guiding Tape

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