

K40 datasheet

Compound:

K40 is a synthetic fibre polyester reinforced composite material with PTFE additive, mainly used for oil lubricated sliding bearing applications. It is suitable for low, medium and high load bearing applications. K40 has excellent mechanical properties.

Qualifications:

Medium low friction, Very good wear resistance, Very high load capacity,
Very good abrasion resistance, Acceptable dry running properties

Typical properties

Mechanical properties		unit	value
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Color			Blue
Density		g/cm ³	1,24
Hardness		Rockwell M	100
Water absorption to saturation		%	< 0,1
Compressive strength	flatwise	N/mm ²	345
Compressive strength	edgewise	N/mm ²	100

Thermal properties	unit	min.	max.
Service temperature range	°C	-40	130

Linear expansion coefficients	20-100°C (per °Cx10 ⁻⁶)		
Parallel to laminate			65
Normal to laminate			70

Static coefficient of friction dry at 15 N/mm ²		0,15	0,18
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Maximum and minimum working temperature is depending on the specific application criteria

The above values are typical

The information in this datasheet is based on many years of experience in the application of K40. However, unknown parameters and conditions may restrict general statements during usage. It is vital that users satisfy themselves as to the suitability of individual products through adequate testing. For this reason and due to the wide range of applications of our products, AST B.V. can accept no liability as to the suitability or correctness of our recommendations in individual cases. The application limits for pressure, temperature and velocity given in this datasheet are maximum values determined in the test laboratory. During practical applications it should be remembered that due to the interaction of the operating parameters, the maximum values must be set correspondingly lower. For exceptional operating conditions, please contact us.