

KARon[®] V Wear Strip Product Data Sheet

Description:

Kamatics KARon[®] V Wear Strip consists of standard KARon Grade V self lubricating bearing material applied onto a thin fiberglass substrate. It is designed to be bonded onto surfaces which are subjected to light to medium duty rubbing pressure, or as a fretting resistant barrier.

Physical Properties:⁽¹⁾

| | | |
|--------------------------|---------------------------------------|----------------------------------|
| Coefficient of friction: | .04 - .08 | |
| Compressive strength: | 30,000 psi | (207 MPa) |
| Max dynamic load: | 10,000 psi | (69 MPa) |
| Max operating temp.: | 250°F | (120°C) |
| Wear rate: | .5×10 ⁻⁶ inch/ft of travel | (41.6×10 ⁻⁶ mm/meter) |
| Hardness: | 85 - 90 Rockwell M | |

Available Sizes*:

Standard KARon V Wear Strip material is available in cut sheets, strips, washers and custom cut shapes. The material is available in two grades:

| <i>KARon V Wear Strip Grade</i> | <i>Product Description</i> | <i>Nominal Thickness</i> |
|---------------------------------|----------------------------|--------------------------|
| 100 | Light Duty Wear Strip | .018" (.46 mm) |
| 200 | Medium Duty Wear Strip | .036" (.91 mm) |

Standard Part Numbering System:

For standard cut strip dimension parts, Kamatics uses the following part numbering system:

English dimensions: **KWSxxx[T] - yyy - zzz**

xxx = Wear strip grade

yyy = Part width in 1/8" increments, i.e. 024 = 3" wide

zzz = Part length in 1/4" increments i.e. 096 = 24" long

T option = 3/8" Pull tab option (for easy removal of peel ply backing)

Examples: KWS100T-016-96 = Light Duty Wear Strip, 2" x 24", with pull tab

KWS200-008-144 = Medium Duty Wear Strip, 1" x 36", no pull tab

Metric dimensions: **KWSMxxx[T] - yyy - zzz**

xxx = Wear strip grade

yyy = Part width in 5mm increments, i.e. 020 = 100m wide

zzz = Part length in 10mm increments, i.e. 050 = 500mm long

T option = 9.5mm pull tab option (for easy removal of peel ply backing)

Examples: KWSM200-007-095 = Medium Duty Wear Strip, 35mm x 950mm, no pull tab

KWSM100T-015-050 = Light Duty Wear Strip, 75mm x 500mm, with pull tab

***Contact Kamatics for size limitations**

Bonding Procedure:

KARon V Wear Strip comes with a woven nylon peel-ply on the back of the fiberglass to protect the bonding surface from dirt and debris. When the pull tab (T) option is called out in the part number, a 3/8" (9.5mm) long break away tab will be provided for easy removal of the peel ply backing. With the peel-ply removed and the back surface exposed, the KARon V Wear Strip is prepared for bonding onto a suitable surface. A room-temperature curing structural epoxy adhesive⁽²⁾ is recommended for bonding KARon V Wear Strip material.

Notes:

- Above reported values based on wear strip only. Physical properties in service will be largely dependent upon the adhesive bond integrity, the substrate material, and surface preparation of the substrate.
- Suggested structural adhesives: Hysol EA9460, Hysol EA9309, Hysol EA9394 (Loctite), Scotchweld 460 (3M Co.), Araldite 2011 (Huntsman).