

# HabasitLINK®

## M2470 Flat Top 1" MTW



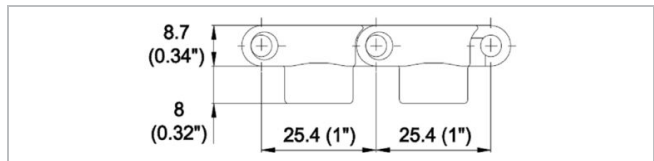
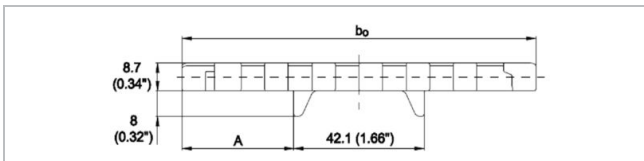
### Description

- Mold to width flat top belt
- Imperial widths
- 8.7 mm (0.34") thick
- High strength and stiffness
- 0% open area
- Closed hinge
- Rod diameter 4.5 mm (0.18")
- Headless Smart Fit rod retention
- Strong closed edges
- Beveled edges for smooth side transfer
- Lug teeth sprockets
- Two versions:
  - M2470Kxx (modules without tabs),
  - M2470Kxx-T20 (modules with 2 tabs)



### Available accessories

- For standard guiding profiles, refer to the HabiPLAST brochure



### Belt data

|          | Nominal belt width $b_0$ |      | A    |      | Belt material | Rod material | Nominal tensile strength $F_N$ straight run |      | Belt weight $m_b$ |       |
|----------|--------------------------|------|------|------|---------------|--------------|---------------------------------------------|------|-------------------|-------|
|          | mm                       | inch | mm   | inch |               |              | N                                           | lbf  | kg/m              | lb/ft |
| M2470K03 | 82.5                     | 3.3  | 20.1 | 0.80 | POM           | PBT          | 1600                                        | 360  | 0.72              | 0.48  |
| M2470K03 | 82.5                     | 3.3  | 20.1 | 0.80 | POM           | PA           | 1850                                        | 416  | 0.72              | 0.48  |
| M2470K03 | 82.5                     | 3.3  | 20.1 | 0.80 | POM           | PP           | 1300                                        | 293  | 0.72              | 0.48  |
| M2470K04 | 114.2                    | 4.5  | 36.0 | 1.40 | POM           | PP           | 1900                                        | 428  | 0.99              | 0.67  |
| M2470K04 | 114.2                    | 4.5  | 36.0 | 1.40 | POM           | PBT          | 2300                                        | 518  | 0.99              | 0.67  |
| M2470K04 | 114.2                    | 4.5  | 36.0 | 1.40 | POM           | PA           | 2600                                        | 585  | 0.99              | 0.67  |
| M2470K06 | 152.3                    | 6.0  | 55.1 | 2.20 | POM           | PBT          | 3400                                        | 765  | 1.35              | 0.91  |
| M2470K06 | 152.3                    | 6.0  | 55.1 | 2.20 | POM           | PA           | 4300                                        | 968  | 1.35              | 0.91  |
| M2470K06 | 152.3                    | 6.0  | 55.1 | 2.20 | POM           | PP           | 2800                                        | 630  | 1.35              | 0.91  |
| M2470K07 | 190.4                    | 7.5  | 74.1 | 2.90 | POM           | PP           | 3600                                        | 810  | 1.66              | 1.12  |
| M2470K07 | 190.4                    | 7.5  | 74.1 | 2.90 | POM           | PBT          | 4300                                        | 968  | 1.66              | 1.12  |
| M2470K07 | 190.4                    | 7.5  | 74.1 | 2.90 | POM           | PA           | 5500                                        | 1238 | 1.66              | 1.12  |

The belt weights are indicated for belts with tabs, the weight of belts without tabs are lower by circa 0.05 kg/m (0.03 lb/ft).

Real belt widths are in most cases 0.1% to 0.3% smaller.

| Diameter of idling rollers (minimum) |      | Diameter of support rollers (minimum) |      | Diameter for gravity take-up and center drive rollers (minimum) |      |
|--------------------------------------|------|---------------------------------------|------|-----------------------------------------------------------------|------|
| mm                                   | inch | mm                                    | inch | mm                                                              | inch |
| 50                                   | 2.00 | 50                                    | 2.00 | 100                                                             | 4    |

### Temperature range

| Module material | Rod material | Temperature range |                   |
|-----------------|--------------|-------------------|-------------------|
| POM             | PA           | -40 °C to +93 °C  | -40 °F to +200 °F |
| POM             | PBT          | -40 °C to +93 °C  | -40 °F to +200 °F |
| POM             | PP           | +5 °C to +93 °C   | +40 °F to +200 °F |

**For detailed material properties** refer to the HabasitLINK® Engineering Guidelines.

**The nominal tensile strength** is valid for 23 °C (73 °F). The admissible tensile force depends on the operating temperature near the drive sprockets. Within the temperature range allowed, the admissible tensile force may vary from 100% to 20% of the nominal tensile strength. For detailed information and correct calculation of effective tensile force refer to the Calculation Guide in the HabasitLINK® Engineering Guidelines.

### Disclaimer

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