

Product group: **320**      Product number: **411238**

Product information

Our most recognised product to date, long admired as a premium, mixed polymer rope solution. We have sold Timm Master to over 6,000 vessels worldwide. Our Master ropes are supplying a significant proportion of the world's largest shipping companies. This is a flexible and easily handled product made from our Timm Signal B5 polyolefin yarn and high tenacity polyester and has long been admired as a premium, mixed polymer mooring rope.

Features

- 8-strand plaited construction
- Buoyant
- Low-torque
- UV stabilised

Benefits

- Class leading strength-to-weight ratio
- High abrasion resistance
- Type approval from DNV GL
- Meets all OCIMF requirements
- Held in global stock inventory

Specification

General

|                                                |                                        |
|------------------------------------------------|----------------------------------------|
| Invent Hazard Material (IMO/EU) classification | NA                                     |
| Material                                       | Mixed polyolefins (B5 yarn) and HT PES |
| Material type and grade                        | Mixed polyolefins (B5 yarn) and HT PES |

Dimensions/Weight

|               |     |
|---------------|-----|
| Diameter [mm] | 72  |
| Length [m]    | 200 |

Performance data

|                     |      |
|---------------------|------|
| DNVGL               | Y    |
| SBA                 | N    |
| Strength adjustment | 10%  |
| Var Range From      | 100% |
| Var Range To        | 105% |

Approvals

Type Approved Product by DNV GL. This product is produced according to ISO 9554 and tested according to ISO 2307. Minimum Breaking Load (MBL) is according to ISO 10556 and verified by DNV GL.

Manufactured acc. to => ISO 9554, ISO 10556  
Tested acc. to => ISO 2307, CI 1500A, DNVGL-CP-0100  
Type Approval No => TAK0000094

Documents

Timm Master - Use and Care Manual

Physical properties

|                                     |                                  |
|-------------------------------------|----------------------------------|
| Colour                              | White with 3 black marking yarns |
| Construction                        | 8-strand plaited rope            |
| Density [kg/m3]                     | 0.99                             |
| Elongation [%]                      | 18% at break                     |
| Eyes                                | 1.8m protected eyes (PES)        |
| Jacketed                            | false                            |
| Line Construction                   | 8-strand braided                 |
| Line Linear Density (LLD)           | 2.699 kg/m                       |
| Line Tenacity (LT) Maximum          | 38.41 t/kg/m                     |
| Line Tenacity (LT) Maximum (kN/g/m) | 0.38 kN/g/m                      |
| Line Tenacity (LT) Measured         | 37.77 t/kg/m                     |
| Load Bearing Linear Density (LBLD)  | 2.699 kg/m                       |
| Melting point                       | 165°C                            |
| NSBF (if requested)                 | Not requested                    |
| Rotating                            | false                            |
| Splice type and design              | Tuck (4S-4Z)x5                   |

Technical data

|                                              |                 |
|----------------------------------------------|-----------------|
| Angled Break Force (ABF) % Avg NSBF D/d = 10 | 181.42 (90.71)  |
| Angled Break Force (ABF) % Avg NSBF D/d = 5  | 173.00 (86.50)  |
| Angled Endurance (AE) % Avg NSBF D/d = 10    | 78.21           |
| Angled Endurance (AE) % Avg NSBF D/d = 5     | 75.13           |
| Average Immediate Strain (e) %LDBF:10        | 1.33            |
| Average Immediate Strain (e) %LDBF:20        | 2.50            |
| Average Immediate Strain (e) %LDBF:30        | 3.50            |
| Average Immediate Strain (e) %LDBF:40        | 4.36            |
| Average Immediate Strain (e) %LDBF:50        | 5.24            |
| Axial Compression Resistance (ACR)           | 94.53% Avg NSBF |
| Line Design Break Force (LDBF)               | 102             |
| Spliced MBL/LDBF [kN]                        | 1001            |
| Temperature (T) % BF at 20°C -20C            | 135/101         |
| Temperature (T) % BF at 20°C 0C              | 124/103         |
| Temperature (T) % BF at 20°C 20C             | 100/100         |
| Temperature (T) % BF at 20°C 40C             | 84/93           |
| Temperature (T) % BF at 20°C 60C             | 72/89           |
| Temperature (T) % BF at 20°C 80C             | 57/89           |
| Unspliced MBL [kN]                           | 1112            |
| Unspliced MBL [t]                            | 113.4           |
| Water absorption [%]                         | <1%             |

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