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# TIMM MASTER 12 SBA TAIL FT160 [92MM] 22M

Product group: **325** Product number: **L410453**



## Product information

Our best selling mooring tail made from the Timm Master rope design, sold to over 6 000 vessels. Made of HT polyester and B5 polyolefin yarns which effectively absorb shock/energy in mooring systems. Typically used with steel wire and HMPE ropes. Compared to nylon stretchers, this product remains elastic for a longer period. It performs better in wet conditions, providing equal breaking strength under wet and dry conditions.

The stretcher breaking strength is given by Tail Design Break Force TDBF as per OCIMF MEG4, equal to value of MBL spliced.

### Features

- Protected eyes
- Buoyant
- High elongation

### Benefits

- 15-20% lighter than PES and nylon tails
- Excellent abrasion and UV resistance
- Smooth and gripable surface
- Meets all OCIMF requirements

## Specification

## General

<b>Invent Hazard Material (IMO/EU) classification</b>	NA
<b>Material</b>	75% Polyolefin / 25% HT Polyester
<b>Material type and grade</b>	Mixed polyolefins (B5 yarn) and HT PES

## Dimensions/Weight

<b>Diameter [mm]</b>	92
<b>Length</b>	22
<b>Length [m]</b>	22

## Performance data

<b>DNVGL</b>	Y
<b>SBA</b>	Y
<b>Strength adjustment</b>	10%
<b>Var Range From</b>	125%
<b>Var Range To</b>	130%

## Physical properties

<b>Colour</b>	White and blue
<b>Construction</b>	12-strand braided
<b>Density</b>	0.99
<b>Density [kg/m<sup>3</sup>]</b>	0.99
<b>Elongation [%]</b>	18% at break
<b>Eyes</b>	1,8m mesh braid protected eyes
<b>Jacketed</b>	false
<b>Line Construction</b>	12-strand braided
<b>Line Linear Density (LLD)</b>	4.513 kg/m
<b>Line Tenacity (LT) Maximum</b>	38.41 t/kg/m
<b>Line Tenacity (LT) Maximum (kN/g/m)</b>	0.38 kN/g/m
<b>Load Bearing Linear Density (LBLD)</b>	4.392 kg/m
<b>Melting point</b>	165°C
<b>NSBF (if requested)</b>	Not requested
<b>Rotating</b>	false
<b>Splice type and design</b>	TM12 2G

## Technical data

<b>Average Immediate Strain (e) %LDBF:10</b>	1.09
<b>Average Immediate Strain (e) %LDBF:20</b>	2.26
<b>Average Immediate Strain (e) %LDBF:30</b>	3.36
<b>Average Immediate Strain (e) %LDBF:40</b>	4.38
<b>Average Immediate Strain (e) %LDBF:50</b>	5.35
<b>Dynamic stiffness (Kex) Exposed</b>	22.986xTDBF
<b>Dynamic stiffness (Ksh) Sheltered</b>	18.031xTDBF
<b>LDBF [kN] (from)</b>	1324
<b>LDBF [kN] (up to)</b>	1620
<b>LDBF [t] (from)</b>	135.0
<b>LDBF [t] (up to)</b>	165.1
<b>Line Design Break Force (LDBF)</b>	165.1
<b>Tension-tension endurance CTF 20%</b>	19934162223361
<b>Tension-tension endurance CTF 50%</b>	205233732
<b>Unspliced MBL [t]</b>	183.5

## Approvals

Type Approved Product by DNV GL.

This product is produced according to ISO 9554 and tested according to ISO 2307 and OCIMF MEG4. Minimum Breaking Load (MBL) is according to ISO 10556 and verified by DNV GL.

Snap Back Arrestor is a verified product by DNV GL.

Manufactured acc. to => ISO 9554, ISO 10556

Tested acc. to => ISO 2307, CI 1500A, DNVGL-CP-0100

Type Approval No => TAK0000094

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