Wilhelmsen Ships Service

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TIMM MASTER 12 SBA TAIL 73MM 11M

Product group: **325** Product number: **L412056**

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

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

Physical properties

Colour	White and blue
Construction	12-strand braided
Density	0.99
Density [kg/m3]	0.99
Elongation [%]	18% at break
Eyes	1,8mm mesh braid protected eyes
Jacketed	false
Line Construction	12-strand braided
Line Linear Density (LLD)	2.864 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)	2.775 kg/m
Melting point	165°C
NSBF (if requested)	Not requested
Rotating	false
Splice type and design	TM12 2G

Dimensions/Weight

Diameter [mm]	73
Length	11
Length [m]	11

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	1.09
Average Immediate Strain (e) %LDBF:20	2.26
Average Immediate Strain (e) %LDBF:30	3.36
Average Immediate Strain (e) %LDBF:40	4.38
Average Immediate Strain (e) %LDBF:50	5.35
Axial Compression Resistance (ACR)	94.53% Avg NSBF
Dynamic stiffness (Kex) Exposed	22.986xTDBF
Dynamic stiffness (Ksh) Sheltered	18.031xTDBF
LDBF [kN] (from)	870
LDBF [kN] (up to)	1028
LDBF [t] (from)	88.5
LDBF [t] (up to)	104.8
Line Design Break Force (LDBF)	104.8
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
Tension-tension endurance CTF 20%	19934162223361
Tension-tension endurance CTF 50%	205233732
Unspliced MBL [t]	116.5

Performance data

DNVGL	Y
SBA	Y
Strength adjustment	10%

Var Range From	125%
Var Range To	130%

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, DNV-CP-0100
Type Approval No => TAK0000094

Documents

Timm Master 12 SBA Tail