

P130427



Thorsman TET™ Cable grommets Page 2



Description

TET grommets are available in two different materials, Ethylene/propylene (EPDM) rubber and Chloroprene (CR) rubber. They are intended for completely dust and watertight sealing of cables, conduits and pipes, for example in cars, aeroplanes, ships, electrical and hydraulic equipment, enclosed apparatus and light fittings. Both materials are weather and temperature resistant and can be used both indoors and outdoors.

Advantages

- Fast installation — seals without tightening of the grommet
- Permits vibration in cables, conduits and pipes without detracting from the seal
- The sealing diaphragm is punctured only when the cable is drawn through – acts as a blind plug and is ready for installation
- Approved for installation in ships
- Each size has a very wide sealing range.
- High degree of protection – IP67

Approvals

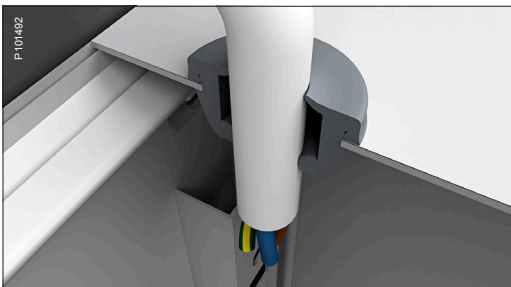
Approved by Lloyds Register of Shipping, Det Norske Veritas for marine and offshore use, and the Swedish, Norwegian, Danish and Finnish national approval boards for watertight penetration.

Degree of protection

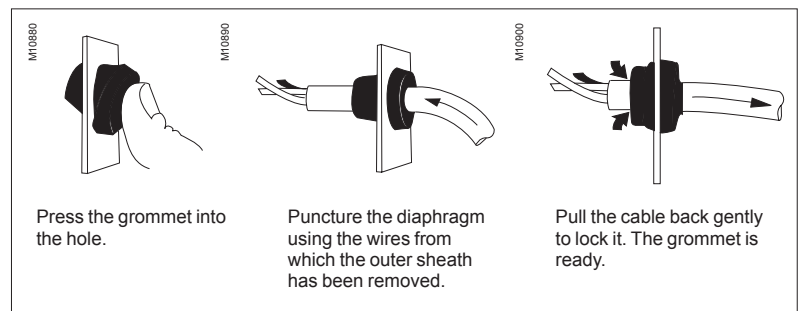
IP67 in accordance with IEC.

Material data


See page 6.



Installation



Range

Type	Colour	Dimensions Ø/B mm		Hole ¹⁾ Ø mm	Qty per package	EAN code	Ref. No.
Grommets, EPDM							
Grommet suitable for untapped holes in material with a thickness from 1 to 4 mm, TET 3-5 for 0.5 to 3 mm. For completely dust and watertight cable and pipe inlets. Material: EPDM rubber.							
TET 3-5	Grey	20/13		12.5 ²⁾	50	3606480163784	IMT36179
TET 5-7	Grey	21/18		16	50	3606480163791	IMT36180
TET 7-10	Grey	24/20		19	50	3606480398834	IMT37303
TET 10-14	Grey	28/22		23	50	3606480398872	IMT37307
TET 14-20	Grey	35/25		29	50	3606480398919	IMT37311
TET 20-26	Grey	46/30		38	25	3606480398940	IMT37314
TET 26-35	Grey	58/35		48	25	3606480398971	IMT37317
Metric grommets, EPDM							
Grommet suitable for holes with metric thread in material with a thickness from 1 to 4 mm. For completely dust and watertight cable and pipe inlets. Material: EPDM rubber.							
TET M7-10	Grey	25/20		M20	50	3606480163807	IMT36181
TET M10-14	Grey	29/22		M25	50	3606480163814	IMT36182
TET M14-20	Grey	37.5/25		M32	50	3606480163821	IMT36183
TET M20-26	Grey	48/30		M40	25	3606480163838	IMT36184
TET M26-35	Grey	60/35		M50	25	3606480163845	IMT36185
Grommets, CR							
Grommet suitable for untapped holes in material with a thickness from 1 to 4 mm, TET 3-5 for 0.5 to 3 mm. For completely dust and watertight cable and pipe inlets. Material: Chloroprene (CR).							
TET 3-5C	Black	20/13		12.5 ²⁾	50	3606480398803	IMT37300
TET 5-7C	Black	21/18		16	50	3606480399008	IMT37320
TET 7-10C	Black	24/20		19	50	3606480398841	IMT37304
TET 10-14C	Black	28/22		23	50	3606480398889	IMT37308
TET 14-20C	Black	35/25		29	50	3606480398926	IMT37312
TET 20-26C	Black	46/30		38	25	3606480398957	IMT37315
TET 26-35C	Black	58/35		48	25	3606480398988	IMT37318
Metric grommets, CR							
Grommet suitable for holes with metric thread in material with a thickness from 1 to 4 mm. For completely dust and watertight cable and pipe inlets. Material: Chloroprene (CR).							
TET M7-10C	Black	25/20		M20	50	3606480163739	IMT36174
TET M10-14C	Black	29/22		M25	50	3606480163777	IMT36178
TET M14-20C	Black	37.5/25		M32	50	3606480163760	IMT36177
TET M20-26C	Black	48/30		M40	25	3606480163753	IMT36176
TET M26-35C	Black	60/35		M50	25	3606480163746	IMT36175

Range, bulk

Grommets, EPDM							
Grommet suitable for untapped holes in material with a thickness from 1 to 4 mm, TET 3-5 for 0.5 to 3 mm. For completely dust and watertight cable and pipe inlets. Material: EPDM rubber.							
TET 3-5	Grey	20/13		12.5 ²⁾	5000	3606480398810	IMT37301
TET 5-7	Grey	21/18		16	4000	3606480399015	IMT37321
TET 7-10	Grey	24/20		19	2500	3606480398858	IMT37305
TET 10-14	Grey	28/22		23	1700	3606480398896	IMT37309
TET 14-20	Grey	35/25		29	1000	3606480398933	IMT37313
TET 20-26	Grey	46/30		38	425	3606480398964	IMT37316
TET 26-35	Grey	58/35		48	250	3606480398995	IMT37319
Grommets, CR							
Grommet suitable for untapped holes in material with a thickness from 1 to 4 mm, TET 3-5 for 0.5 to 3 mm. For completely dust and watertight cable and pipe inlets. Material: Chloroprene (CR).							
TET 3-5C	Black	20/13		12.5 ²⁾	5000	3606480398827	IMT37302
TET 5-7C	Black	21/18		16	4000	3606480399022	IMT37322
TET 7-10C	Black	24/20		19	2500	3606480398865	IMT37306
TET 10-14C	Black	28/22		23	1700	3606480398902	IMT37310

¹⁾ Tolerance if material thickness is more than 2 mm = +1/-0 mm

Tolerance if material thickness is less than 2 mm = ±1 mm

²⁾ Tolerance ±0.5 mm

Material data

Material	EPDM Ethylene/propylene rubber	CR Chloroprene rubber
Colour	Grey	Black
Halogen-free	Yes	No
Density	1.35 g/cm ³	1.38 g/cm ³
Hardness	60–65° shore A	60–62° shore A
Weather resistance	Weather and temperature resistant. Can be used both indoors and outdoors.	Weather and temperature resistant. Can be used both indoors and outdoors.
Temperature resistance	For continuous use between –40°C and +100°C (cf.natural rubber +70°C). Slightly higher temperature for short periods (+130°C for about one hour).	For continuous use between –25°C and +95°C. Slightly higher temperature for short periods.
Thermal aging	After 72 hours at +100°C. Change in properties: Hardness +5° SH (+11%) Breaking point –18% Elongation at break –26%	After 72 hours at +100°C. Change in properties: Hardness +6° SH (+10%) Breaking point –8% Elongation at break –16% After 72 hours at +125°C. Change in properties: Hardness +13° SH (+13%) Breaking point –12% Elongation at break –35%
Fire properties	Non self-extinguishing. Combustion rate 2 cm/min approx.	Self-extinguishing. Tested to IEC standard. Approved for installation in ships in accordance with IEC Publ. No. 92-1 (1964). Electrical installations in ships, Part 1 General requirements.
Chemical resistance at –20°C	<i>Normally resistant to:</i> • Detergents • Strongly oxidizing chemicals such as: • Ammonia • Dilute phosphoric acid • Dilute chromic acid • Dilute nitric acid • Dilute hydrochloric acid • Dilute sulphuric acid • Others, e.g.: • Developer • Glycol • Cooling fluid (emulsion) <i>Slightly affected by:</i> • Concentrated acids at room temperature	<i>Normally resistant to:</i> • Aliphatic hydrocarbons • Alkalies • Alcohols • Dilute acids <i>Slightly affected by:</i> • Acetone • Ammonia • Freon • Glycol • Sodium hydroxide
Oil resistance	Not resistant to mineral oils, but withstands minor splashing such as that occurring in engine compartments of vehicles, etc.	Good resistance to mineral oils. The effect of other petroleum products, such as solvents, lubricating grease and wax, is insignificant. Should not be used in direct contact with petrol (gasoline).

Being based on laboratory tests, all information should be regarded for guidance only. Temperature, duration of exposure, concentrations, etc., severely affect the properties.