

Dagangan : FLEXI AND REINFORCED PLASTIC HOSE

Nama Barangan : Delivery Hose
Jenama : Sunny

Kod Tarif (Perintah Duti Kastam 2012) :

3917.39 920

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Barangan adalah berbentuk silinder dan di namakan sebagai *delivery hose*.

Berdasarkan surat daripada pemohon, barangan adalah diperbuat daripada *PVC compound* dan *polyester yarn*. Kandungan *PVC compound* adalah lebih kurang 90% dan kandungan *polyester yarn* adalah lebih kurang 10%.

Barangan diimport dalam bentuk roll (gulungan) di mana setiap roll berukuran 100 meter.

Kegunaan barangan berdasarkan risalah : *It is designed for temporary water supply or drainage, for drip irrigation and sprinkler irrigation at farms.*

Spesifikasi barangan berdasarkan risalah :-

Size mm/(inches)	Internal Dia. (mm)	Wall Thickness (mm)	Weight (g/m)	Working Pressure (kg/cm ²)
50 (2)	53	1.30	270	4.5
75 (3)	78	1.70	530	4.0
100 (4)	104	1.75	705	4.0
150 (6)	155	1.95	1,175	3.0
200 (8)	207.5	2.20	1,785	3.0

Barangan adalah sejenis *plastic hose* dan diperbuat daripada 90 % *PVC compound* dan 10 % *polyester yarn (reinforced)*.

Barangan juga berlubang dan mempunyai ruangan kosong di bahagian tengah.

Berdasarkan risalah, barangan merupakan sejenis *general purpose hose*.

Barangan adalah sejenis hose yang boleh dilentur (*flexible*) dengan *working pressure* (kg/cm²) antara 3.0 hingga 5.0 iaitu *burst pressure* di antara 0.29 hingga 0.49 Megapascal (MPa).

Barangan ini sesuai diperjeniskan di bawah kod tarif **3917.39 920** sebagai ***flexible and reinforced plastic hoses of addition polymerization products.***

Berdasarkan fakta, barangan merupakan sejenis *plastic hoses* yang boleh dilentur (*flexible*) dengan *working pressure* (kg/cm²) antara 3.0 hingga 5.0 iaitu *burst pressure* di antara 0.29 hingga 0.49 Megapascal (MPa). Barangan juga menepati definisi *hollow products* berdasarkan ciri-ciri barangan yang berlubang dan mempunyai ruangan kosong di bahagian tengah.

Definisi *hollow* berdasarkan <http://dictionary.cambridge.org> : *a hole or empty space in something, or a low area in a surface*

Definisi ini juga adalah sesuai dengan keterangan EN HS 2012 *Note 8 to Chapter 39* muka surat VII-39-3 iaitu :-

8. *For the purposes of heading 39.17, the expression tubes, pipes and hoses means hollow products, whether semi-manufactures or finished products, of a kind generally used for conveying, conducting or distributing gases or liquids (for example, ribbed garden hose, perforated tubes). This expression also includes sausage casings and other lay-flat tubing. However, except for the last-mentioned, those having an internal cross-section other than round, oval, rectangular (in which the length does not exceed 1.5 times the width) or in the shape of a regular polygon are not to be regarded as tubes, pipes and hoses but as profile shapes.*

Barangan adalah diperbuat daripada 90 % *PVC compound* dan 10 % *polyester yarn (reinforced)*. Ini sesuai sebagaimana keterangan EN HS 2012 muka surat VII-39-12 iaitu :

Plastics and textile combinations

Wall or ceiling coverings which comply with Note 9 to this Chapter are classified in heading 39.18. Otherwise, the classification of plastics and textile combinations is essentially governed by Note 1 (h) to Section XI, Note 3 to Chapter 56 and Note 2 to Chapter 59. The following products are also covered by this Chapter :

(a) – (c)

(d) *Plates, sheets and strip of cellular plastics combined with textile fabrics (as defined in Note 1 to Chapter 59), felt or nonwovens, where the textile is present merely for reinforcing purposes.*

In this respect, unfigured, unbleached, bleached or uniformly dyed textile fabrics, felt or nonwovens, when applied to one face only of these plates, sheets or strip, are regarded as serving merely for reinforcing purposes. Figured, printed or more elaborately worked textiles (e.g., by raising) and special products, such as pile fabrics, tulle and lace and textile products of heading 58.11, are regarded as having a function beyond that of mere reinforcement.

The provisions of the preceding paragraph also apply, mutatis mutandis, to monofilaments, rods, sticks, profile shapes, tubes, pipes and hoses and articles.

Berdasarkan buku *Shreve's Chemical Process Industries Fifth Edition*, barangan berasaskan poly (vinyl chloride) atau PVC adalah dihasilkan melalui *addition polymerization process*.

Addition polymer berdasarkan Wikipedia :

*An **addition polymer** is a polymer which is formed by an addition reaction, where many monomers bond together via rearrangement of bonds without the loss of any atom or molecule. This is in contrast to a condensation polymer which is formed by a condensation reaction where a molecule, usually water, is lost during the formation.*

An addition polymer is formed by a reaction known as polyaddition or addition polymerization. This can occur in a variety of ways including free radical polymerization, cationic polymerization, anionic polymerization and coordination polymerization.

Most of the common addition polymers are formed from unsaturated monomers (usually having a double bond). This includes polythenes, polypropylene, PVC, Teflon, Buna rubbers, polyacrylates, polystyrene, and PCTFE.

Keterangan di atas sesuai dengan kenyataan EN HS 2012 muka surat VII-39-4 dan VII-39-5 iaitu :-

GENERAL

*In general, this Chapter covers substances called polymers and semi-manufacturers and articles thereof, **provided** they are not excluded by Note 2 to the Chapter.*

Polymers

Polymers consist of molecules which are characterized by the repetition of one or more types of monomer units.

Polymers may be formed by reaction between several molecules of the same or of different chemical constitution. The process by which polymers are formed is termed polymerization. In its broad sense, this term includes the following principal types of reactions:

- (1) **Addition polymerization**, in which single molecules with ethylenic unsaturation react with each other by simple addition, without the formation of water or other by-products, to form a polymer chain containing only carbon-carbon bonds, e.g., production of polyethylene from ethylene or ethylene-vinyl acetate copolymers from ethylene and vinyl acetate. This type of polymerization is sometimes called simple polymerization or copolymerization, i.e., polymerization or copolymerization in the strict sense.

Barangan mendapat liputan di dalam EN HS 2012 muka surat VII-3917-1 seperti berikut :

39.17 – Tubes, pipes and hoses, and fittings therefor (for example, joints, elbows, flanges), of plastics.

3917.10 - Artificial guts (sausage casings) of hardened protein or of cellulosic materials

- Tubes, pipes and hoses, rigid:

3917.21 -- Of polymers of ethylene

3917.22 -- Of polymers of propylene

3917.23 -- Of polymers of vinyl chloride

3917.29 -- Of other plastics

- Other tubes, pipes and hoses:

3917.31 -- Flexible tubes, pipes and hoses, having a minimum burst pressure of 27.6 MPa

3917.32 -- Other, not reinforced or otherwise combined with other materials, without fittings

3917.33 -- Other, not reinforced or otherwise combined with other materials, with fittings

3917.39 -- Other

3917.40 - Fittings

According to Note 8 to the Chapter, the expression “tubes, pipes and hoses” means :

- (i) hollow products, whether semi-manufacturers or finished products, of a kind generally used for conveying, conducting or distributing gases or liquids (for example, ribbed garden hose, perforated tubes), provided that they have an internal cross-section which is round, oval, rectangular (in which the length does not exceed 1.5 times the width) or in the shape of a regular polygon; and
- (ii) sausage casings (whether or not tied or otherwise further worked) and other lay-flat tubing.

This heading also includes fittings of plastics for tubes, pipes and hoses (for example, joints, elbows, flanges).

Tubes, pipes and hoses and fittings therefor may be rigid or flexible and may be reinforced or otherwise combined with other materials. (For the classification of tubes, pipes, etc., of plastics combined with other materials, see the General Explanatory Note to this Chapter.)