Global Intrima Bulletin

COMMODITY CLASSES

NO. 016/2018

ommodity classification and corresponding protection requirements shall be determined based on the makeup of individual storage units (i.e., unit load, pallet load).

Commodity classes will be described as below:

a. Class I

Class I commodity shall be defined as a noncombustible product that meets one of the following criteria:

- 1) Placed directly on wood pallets.
- 2) Placed in single-layer corrugated cartons, with or without single-thickness cardboard dividers, with or without pallets.
- 3) Shrink-wrapped or paper-wrapped as a unit load with or without pallets.

b. Class II

Class II commodity shall be defined as a noncombustible product that is in slatted wooden crates, solid wood boxes, multipllayered corrugated cartons, or equivalent combustible packing material, with or without pallets.

c. Class III

Class III commodity shall be defined as a product fashioned from wood, paper, natural fibers, or Group C plastics with or without cartons, boxes, or crates and with or without pallets. Class III commodity shall be permitted to contain a limited amount (5 percent by weight or volume or less) of Group A or Group B plastics.

d. Class IV

Class IV commodity shall be defined as a product, with or without pallets, that meets one of the following criteria:

- 1) Constructed partially or totally of Group B plastics.
- 2) Consists of free-flowing Group A plastic materials.

3) Contains within itself or its packing an appreciable amount (5 percent to 15 percent by weight or 5 percent to 25 percent by volume) of Group A plastics.

Classification of Plastics, Elastomers, and Rubber shall be classified as Group A, Group B, or Group C.

Group A

The following materials shall be classified as Group $\boldsymbol{\Delta}\cdot$

- 1) ABS (acrylonitrile butadiene styrene copolymer)
- 2) Acetal (polyformaldehyde)
- 3) Acrylic (polymethyl methacrylate)
- 4) Butyl rubber
- 5) EPDM (ethylene-propylene rubber)
- 6) FRP (fiberglass-reinforced polyester)
- 7) Natural rubber (if expanded)
- 8) Nitrile-rubber (acrylonitrile butadiene rubber)
- 9) PET (thermoplastic polyester)
- 10) Polybutadiene
- 11) Polycarbonate
- 12) Polyester elastomer
- 13) Polyethylene
- 14) Polypropylene
- 15) Polystyrene
- 16) Polyurethane
- 17) PVC (polyvinyl chloride highly plasticized, with plasticizer content greater than 20 percent)
- 18) SAN (styrene acrylonitrile)
- 19) SBR (styrene butadiene rubber)

Group B

The following materials shall be classified as Group B:

- 1) Cellulosics (cellulose acetate, cellulose acetate butyrate, ethyl cellulose)
- 2) Chloroprene rubber
- 3) Fluoroplastics (ECTFE ethylene chlorotrifluoro ethylene copolymer; ETFE ethylene tetra fluoroethyl enecopolymer; FEP fluorinated ethylene propylene copolymer)
- 4) Natural rubber (not expanded)
- 5) Nylon (nylon 6, nylon 6/6)
- 6) Silicone rubber



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Group C

The following materials shall be classified as Group C:

- 1) Fluoroplastics (PCTFE polychlorotrifluoroethylene; PTFE polytetrafluoroethylene)
- 2) Melamine (melamine formaldehyde)
- 3) Phenolic
- 4) PVC (polyvinyl chloride flexible PVCs with plasticizer content up to 20 percent)
- 5) PVDC (polyvinylidene chloride)
- 6) PVDF (polyvinylidene fluoride)
- 7) PVF (polyvinyl fluoride)
- 8) Urea (urea formaldehyde)

Reference:

- [1] NFPA 13 (2013) Standard for the Installation of Sprinkler Systems
- [2] NFPA 231 (1998) Standard for General Storage

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