



HANNA RUBBER COMPANY

Types of Rubber

Hypalon Rubber (ASTM D2000 Designation CE)

Hypalon rubber, also known as chlorosulfonated polyethylene (CSPE) or CSM, is a synthetic rubber material that offers a unique combination of properties. It was first developed by DuPont in the 1950s and has since been used in various applications, including roofing materials, automotive parts, gaskets, cables, and protective coatings. In 2010, DuPont discontinued the production of Hypalon, but similar materials continue to be produced by other manufacturers under different trade names.

Physical properties of Hypalon rubber include:

Chemical Resistance: Hypalon rubber exhibits excellent resistance to a wide range of chemicals, such as acids, alkalis, oils, and solvents. This property makes it suitable for applications where it may be exposed to harsh environments.

Weather Resistance: Hypalon rubber is known for its exceptional resistance to UV radiation, ozone, and other weathering elements. This durability enables it to maintain its properties and appearance over time, even in harsh outdoor conditions.

Temperature Resistance: Hypalon rubber has a wide operating temperature range, typically between -60°F (-51°C) and 300°F (149°C). This allows it to function effectively in extreme hot and cold environments.

Abrasion Resistance: Hypalon rubber offers good resistance to abrasion and wear, making it suitable for applications where it may be subjected to repeated mechanical stress.

Flexibility: Hypalon rubber is a flexible material, capable of maintaining its properties and resilience even when subjected to flexing or bending. This makes it ideal for applications that require a rubber material with both strength and flexibility.

Low Permeability: Hypalon rubber exhibits low permeability to gases and liquids, which helps prevent the passage of substances through the material.

Flame Resistance: Hypalon rubber is inherently flame-resistant and self-extinguishing, making it suitable for applications where fire resistance is essential.

These physical properties make Hypalon rubber a versatile and valuable material for a variety of applications, including marine environments, chemical processing, automotive components, and more.