polyethylene, chlorosulfonated
CSM; CSPE; Hypalon (Du Pont)

\[
\begin{array}{c}
\text{Cl} \\
\text{CH}_2 - \text{CH}_x \rightleftharpoons \text{CH}_{2} - \text{CH}_y \\
\text{SO}_2\text{Cl}
\end{array}
\]

Elastomers used in vulcanised and unvulcanised form. Vulcanisation is achieved by crosslinking with magnesium oxide, dibasic lead phthalate or other chemicals. The vulcanisates are characterised by their excellent oil, chemical, ozone and weather resistance. Most grades contain 25—43% chlorine and 1—1.5% sulfur.

**Uses**
cable/wire insulation; engineering adhesives; fabric coatings (construction sheet, membrane liners, roof coverings); hoses/moulded goods

**Production**
- polyethylene, low-density + sulfuryl chloride (photochlorosulfonation)