

The characteristics shown below are for the normal or usual range of these specific Elastomers. Characteristics can be changed somewhat through different compounding to meet the requirements of specialised applications. Each elastomer has a unique combination of strengths and weaknesses. Depending on each specific application, the elastomer must possess the correct combination of properties if it is to perform satisfactorily.

Tube and cover elastomers may occasionally be upgraded to take advantage of improved materials and technology.

For detailed information on specific hose tube or cover check the Chemical Resistance Table on Page 323 and also the specific hose page.

COMMON NAME Chemical Name	NEOPRENE Poly-Chloroprene	NITRILE Acrylonitrile & Butadiene	HYPALON Chlorosulfonated Polyethylene	EPDM Ethylene Propylene Diene	CPE Chlorinated Polyethylene	POLYESTER Polyamide Resin	TEFLON Fluorinated Thermoplastic
Common Designation	CR	NBR	CSM	EPDM	CPE	PE-E	PTFE
Flame Resistance	Very Good	Poor	Good	Poor	Good	Poor	Good
Petroleum Base Oils	Good	Excellent	Very Good	Poor	Very Good	Very Good	Excellent
Diesel Fuel	Good to Excellent	Excellent	Good	Poor	Very Good	Very Good	Excellent
Resistance to Gas Permeation	Good	Good	Good to Excellent	Fair to Good	Good	Good	Good to Excellent
Weather	Good to Excellent	Fair to Good	Very Good	Excellent	Good	Excellent	Excellent
Ozone	Good to Excellent	Poor for Tube Good for Cover	Very Good	Excellent	Good	Good	Excellent
Heat	Good	Good	Very Good	Excellent	Excellent	Good	Excellent
Low Temperature	Fair to Good	Poor to Fair	Poor	Good to Excellent	Good	Good	Excellent
Water - Oil Emulsions	Excellent	Excellent	Good	Poor	Excellent	Very Good	Excellent
Water/Glycol Emulsions	Excellent	Excellent	Excellent	Excellent	Excellent	Very Good	Excellent
Diesters	Poor	Poor	Fair	Excellent	Very Good	Good	Excellent
Phosphate Esters to 82°C (180°F)	Fair (For Cover)	Poor	Excellent (not for Aerospace types)	Very Good	Very Good	Good	Excellent
Phosphate Ester Base Emulsions	Fair (For Cover)	Poor	Excellent (not for Aerospace types)	Very Good	Very Good	Good	Excellent

HYPALON, TEFLON™ DU PONT