

GENERAL PROPERTIES OF TIGERFLEX HOSE COMPOUNDS*

Material	Low Temp. Flexibility	Water Resistance	Abrasion Resistance	Chemical Resistance	Oil Resistance	Acid Resistance
PVC (Plasticized)	Fair to Good [^]	Excellent	Good	Good	Poor to Fair	Good
TPU (Ester)	Good	Poor	Excellent	Poor	Excellent	Poor
EPDM	Good	Excellent	Fair	Very Good	Fair to Good	Good
SBR	Good	Excellent	Very Good	Fair	Poor to Fair	Fair
NBR	Fair	Excellent	Fair	Fair to Good	Excellent	Fair to Good

[^] PVC flexibility will vary greatly depending on the type and amount of plasticizer used.

Results will vary depending on the individual hose construction. For example ORV & WOR series are examples of PVC hoses specially formulated for very good oil resistance and BW and W series are PVC hoses specially formulated for very good low temperature flexibility.

* Compounds can exhibit different characteristics depending on their particular formulation. Refer to the individual product pages for the most accurate performance characteristics.

Thermoplastic Polyurethane (TPU)

The unique structure of TPU results in resistance to impacts, abrasions, tears, and animal and petroleum-based oils. TPU offers excellent flexibility without the use of plasticizers, even at sub-zero temperatures. Ester based TPU is not recommended for use with water, especially at high temperatures, as hydrolysis (a breaking of the molecular chains) can result. It's also not recommended for prolonged use above 150F° as softening can occur. Polyurethanes are divided into two main classifications, ester and ether, the majority of Tigerflex hoses are ether based.

TIGERFLEX THERMOPLASTIC POLYURETHANE (TPU) GENERAL COMPOUND PROPERTIES

Material	Hydrolytic Stability	Oil /Solvent Resistance	Low Temp. Flexibility	Abrasion Resistance	Temperature Resistance	Acid/Base Resistance	Fungus Resistance
Polyester	Poor	Excellent	Excellent	Excellent	Very Good	Fair	Fair
Polyether	Excellent	Excellent	Excellent	Very Good	Excellent	Excellent	Excellent

Because we continually examine ways to improve our products, we reserve the right to alter specifications or discontinue products without prior notice.