

HYTREL®

This material is a more specialized version of our products family and therefore a modest upcharge is associated with it.

Please see our product brochure for information regarding our standard products.

Hytrel is a copolyester elastomer that demonstrates excellent low temperature flex characteristics as well as the ability to perform at a considerably higher temperature level than our standard 83A PYRATHANE.

Temperatures as low as -40°F and as high as +200°F are possible.

Hytrel has excellent resistance to a wider variety of chemicals allowing its use in applications urethanes could not tolerate.

Belts of both flat and round configurations can be manufactured of the Hytrel material.

As the modulus of Hytrel is considerably higher than our 83A material, we would recommend an initial stretch of approximately 5% which still provides more tension than our PYRATHANE 83A

Hytrel can sometimes provide necessary low temperature flexibility or chemical tolerance which may offset its poorer abrasion resistance.

To assist in your considerations of this material, we believe the following comparisons to our standard 83A PYRATHANE might be helpful.

ADVANTAGES

- Flexibility at lower temperatures
- Elevated temperature tolerance
- High torque carrying capacity
- Wider chemical resistivity

This data is provided for general information and material comparison. The potential user should perform tests to determine the product's performance and suitability in the intended application. Final determination of the fitness of the product for any particular application is the responsibility of the buyer.

HYTREL® is a registered trade mark of E.I.DuPont Nemours & Co.

PROPERTIES AND CHARACTERISTICS OF HYTREL (approximate)

SHORE HARDNESS

"A" Scale 92 +/- 3
ASTM D 2240

ULTIMATE TENSILE STRENGTH

PSI 4,000
ASTM D 638

ULTIMATE ELONGATION

% 550
ASTM D 638

TENSILE MODULUS

PSI @ 5% ELONGATION 340
PSI @10% ELONGATION 530
ASTM D 638

TEAR STRENGTH

PLI Die "C" 580
ASTM D 1004

When considering Hytrel for your application, only the general information provided in our product brochure will be applicable. Please call us with any questions.

DISADVANTAGES

- Poor abrasion resistance