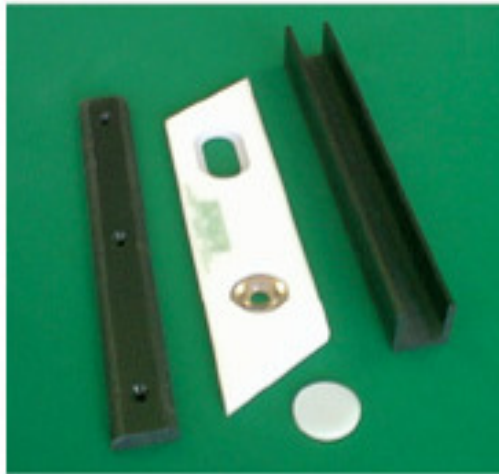


TECHNICOR

PRECISION PLASTICS

TechTips

THERMAL EXPANSION



With a change in temperature, plastic materials tend to change size a lot more than other materials such as steel, ceramics, and even aluminum. The measure of size change is called the *Coefficient of Thermal Expansion*. Polyethylenes (including UHMW-PE) have among the highest coefficients: $0.000140"/F^{\circ}$. For example, assuming a UHMW strip of 120" long, the change in length over a 40 degree temperature change would be: $120" \times 0.000140 \times 40 = 0.672"$ (more than $5/8"$)

Using the "weld-washer" installation method (see *TECHNICOR catalog p. 1-b*) provides sufficient clearance around the fasteners to prevent strips and liners from buckling.

OTHER PRODUCTS BY TECHNICOR



WHERE TO
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