

Technical Data Sheet

Effects of Temperature on TecsPak® General Products

All TecsPak data usually presented for publication is based upon standard tests conducted at room temperature (70°F/20°C). However, there are many applications where the product will be used at other temperatures. The following information is to be used as a guide in evaluating the effect of temperature in selecting a product.

Background:

TecsPak, like all elastomers, has a variable stiffness based upon temperature. Also, because our material absorbs energy during deflection and converts this energy to heat (hysteresis), the temperature of the material will rise during use. For this reason, as well as others, each bumper was tested four times from the free height to the solid height.

Data:

The chart below shows the effects of temperature on both the GBA and GBA-S product lines. The performance at room temperature is considered the standard (100%) and the peak end loads at various temperatures are then shown as a percentage of this standard.

Effect of Temperature on General Products

4 Closure Static Tests After the Bumpers Were Saturated at Temperature

