

# FOAM

## QUALUX

Qualux is the name for a family of high-resiliency urethane foams developed to satisfy a need for superior performance in comfort cushioning.

The principal characteristic of Qualux that makes it such an outstanding product is its super-high retention of firmness under stress. When Qualux is compressed, its superior quality is immediately apparent. It fills the hand, pushing back smoothly but firmly. It is soft, yet resilient.

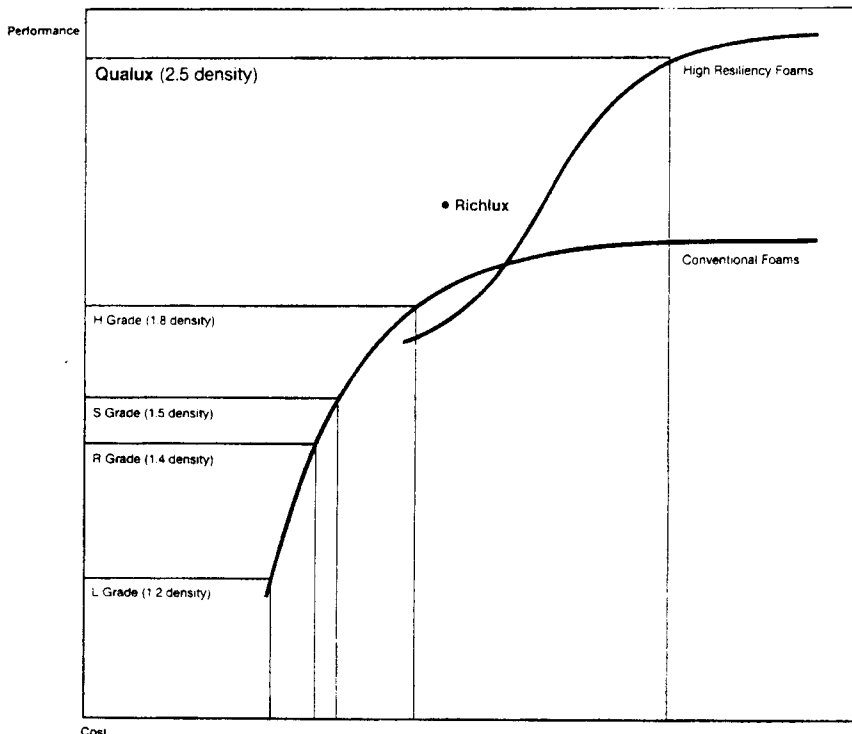
Some foam applications are not highly demanding and can be satisfied by the use of lower-cost conventional foams. However, today there is a demand for softer, deeper cushions and more comfortable, durable mattresses. This places additional stress on foams and causes the conventional types to lose some of their load-bearing properties. This, in turn, causes a cushion or mattress to become too soft and to "bottom out" or sag.

Lower priced conventional foams can be made much firmer to try to avoid this, but then they are, at least initially, too firm for comfort. What is needed is a foam with a soft surface feel that conforms to the body, but which has high load-bearing properties to give deep, firm support. This characteristic is called **compression modulus**.

**Hysteresis** is another important foam characteristic, especially in mattress applications. Hysteresis is the measure of a foam's ability to recover its thickness and firmness immediately after compression. Since a good mattress or furniture cushion has to follow body movements while continuing to provide support, low hysteresis loss is essential to good performance.

The accompanying graph correlates the cost various urethane foam types with their performance.

Performance of Various Urethane Foams in Relation to Cost



When optimum comfort, resiliency and firmness retention are desired, Qualux becomes the obvious choice.