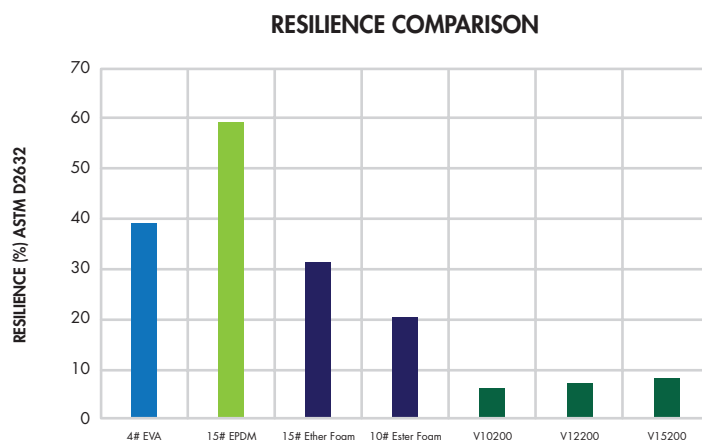


V-Series HD is a new viscoelastic polyurethane foam developed by Rubberlite for applications where higher density and faster recovery rates provide greater performance attributes. V-Series HD maintains low compression set and excellent compression fatigue performance while providing energy attenuation and impact shock absorption.

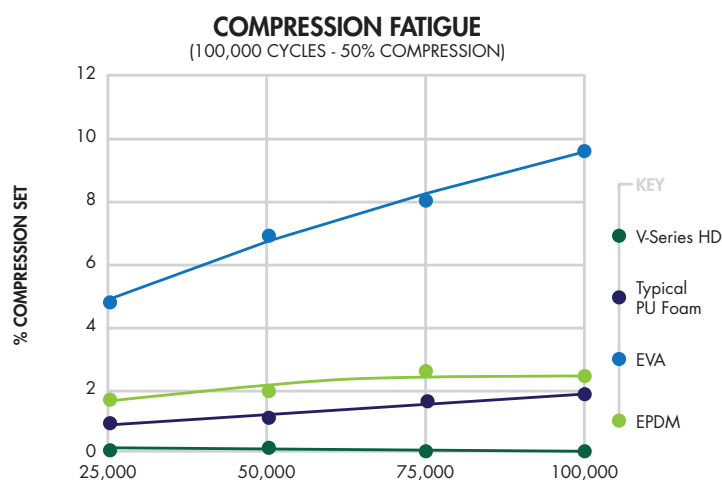
## IMPACT AND SHOCK ABSORPTION

Resiliency defines the characteristic of a material to absorb energy when deformed elastically. This can be directly correlated to the shock attenuation resulting from an impact. The lower the resiliency, the more impact is absorbed. V-Series has low resiliency, fast recovery and higher density, making it the preferred foam for high-performance applications.



## COMPRESSION FATIGUE

The most visible signature of fatigue is compaction – the material fails to recover to its original thickness after repetitive or long term compression. Compaction is quantified as “compression set,” a relationship between the original thickness (T) and the compacted thickness (t), expressed as % loss. Compression set is the result of plastic deformation of cell walls and the reduced resiliency of damaged cells. V-Series HD performance is exceptional with virtually zero compression set or degradation of cellular structure providing a superior alternative for many demanding applications.



## HYPUR-CEL V-SERIES HD TYPICAL PROPERTIES

Physical Property	Method	V10150	V12200	V15300
Density (pcf)	ASTM D3574	8 – 12	10 – 14	13 – 18
CFD 25% (psi)	ASTM D3574	1 – 4	2 – 6	4 – 9
Compression Set (50%) (%)	ASTM D1056	3 max	3 max	3 max
Compression Set (50%) (%)	ASTM D3574	5 max	5 max	5 max
Resilience (%)	ASTM D2632	6	7	8
Tear Strength (lb./in)	ASTM D624	8	10	12
Tensile Strength (psi)	ASTM D3574	50	60	70
Elongation (%)	ASTM D3574	190	160	170

### Product Availability

60" wide rolls in 50' and 100' lengths, skived to custom thicknesses.  
Available with PSA or laminated fabrics.  
Standard color is grey, other colors are available depending on volume.

