

Santoprene™ High Resilience TPV

Mechanical properties

External

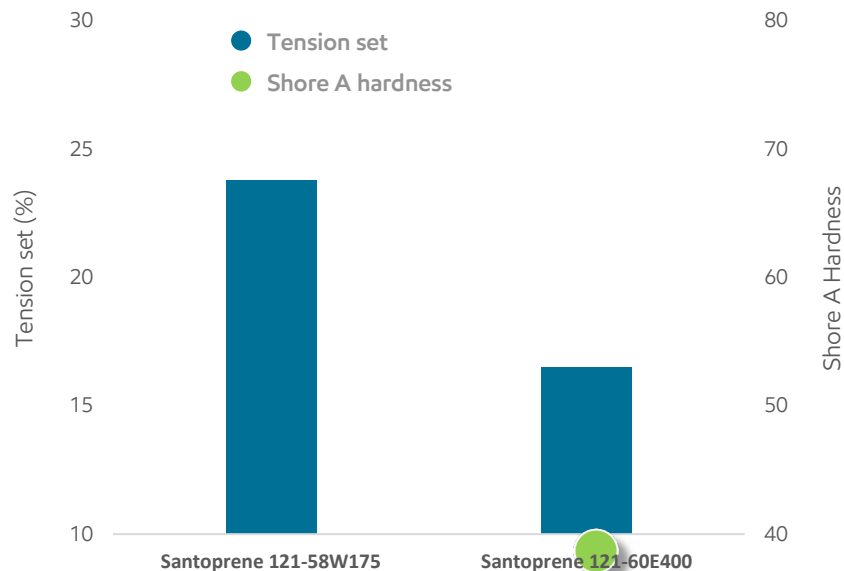


Why it matters

- ▶ More demanding sealing requirements in terms of noise and weather conditions
- ▶ Increased sealing performance
 - Hardness target: 60 Shore A
 - Lower compression set for enhanced performance
- ▶ Good “Class A” surface
- ▶ Can be expanded to automotive dynamic seals



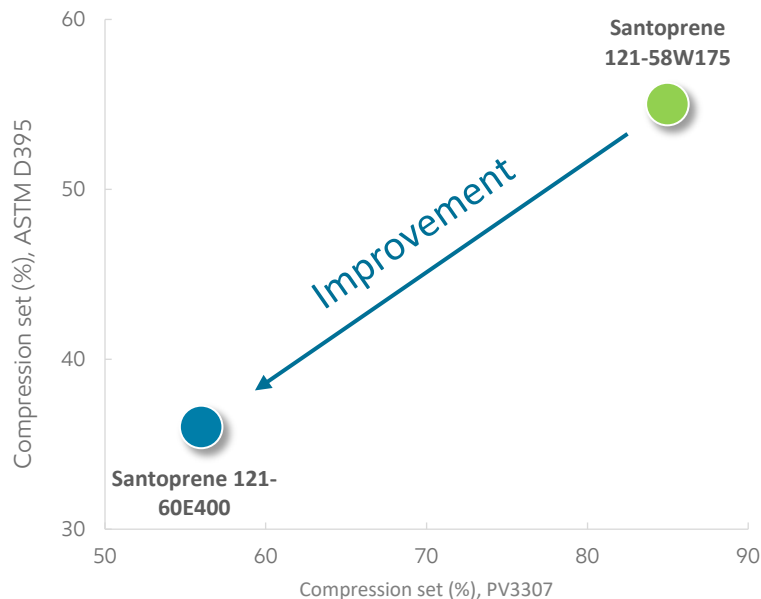
Exhibits **step-out improvement in tension set** at higher overall hardness



Testing conducted as per modified TPE-0053 Method, 50% strain, 22h at 70C. Cool under stress for 2h and release for 30min before measurement

Step-out
improvement in
elastic recovery

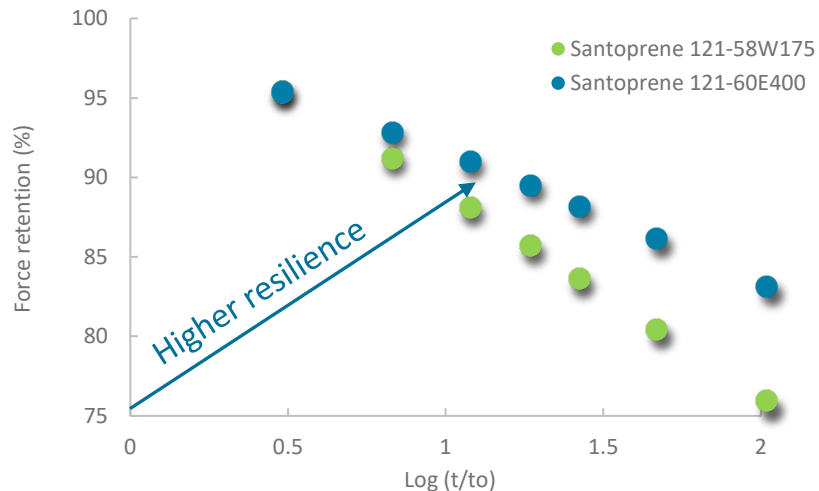
Exhibits **step-out improvement in sealing compression set** under demanding conditions



Compression set conducted on injection molded buttons according to, ASTM D395B – 70°C 168h, 25% strain PV3307 - 70°C, 94h, 50% strain, measured 5 seconds after release

Step-out
improvement in
elastic recovery

Exhibits superior stress relaxation / force retention over commercial TPVs

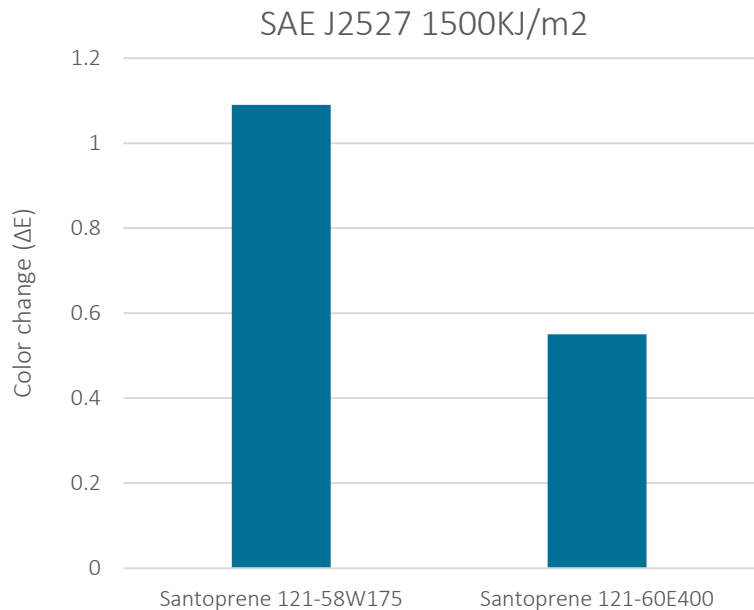


Step-out
improvement in
force retention

% force retention	Santoprene 121-58W175	Santoprene 121-60E400	
30 minutes	58.3	72.3	+24%
24 hours	78.8	86	+9.1%

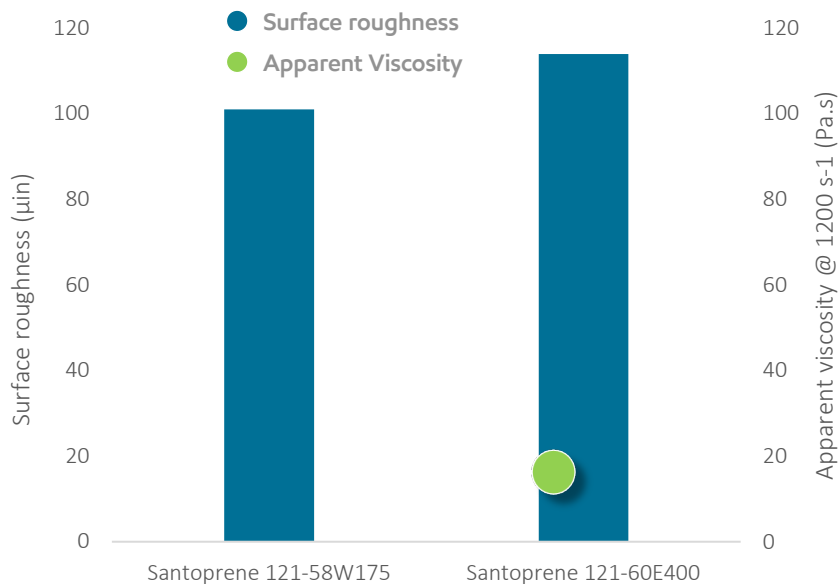
Tested as per ISO 3384A, 24h at 70°C, 35% compression. Specimen plied up 2 mm plates

Shows **excellent UV resistance** over commercial TPVs



Step-out
improvement in
UV resistance

Shows good surface appearance



Extrusion surface roughness was measured on a 1" extruded strip according to TPE-0106
Viscosity was measured in a capillary rheometer at 204°C according to TPE-0200

Comparable
extrusion performance



Thank you

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