



## Achieve Wide Hardness Range with a Single System



The HYPERLAST™ 301 polyurethane system delivers improved mechanical properties and dynamic performance compared to regular PPG-based elastomers while achieving superior processing.

Available for sampling, the HYPERLAST 301 system demonstrates good stress-strain properties, excellent tear strength and outstanding abrasion resistance. These performance enhancements, in addition to processing advantages such as low viscosity, low temperature casting and cure, and the convenience of being able to achieve a wide hardness range (70A to 90A) with a single system, make HYPERLAST 301 a good choice for general castings for a variety of applications.

Potential uses for the HYPERLAST 301 system include wheels, rollers, mining screens, mechanical parts, agricultural parts and replacement of other materials, such as rubber, in industrial applications.

### Improved Mechanical Properties

The HYPERLAST™ 301 system offers better mechanical properties than other conventional PPG systems, including:

- Excellent abrasion performance
- Superior tear strength
- Enhanced dynamic performance
- Improved durability

### Exceptional Processing Performance

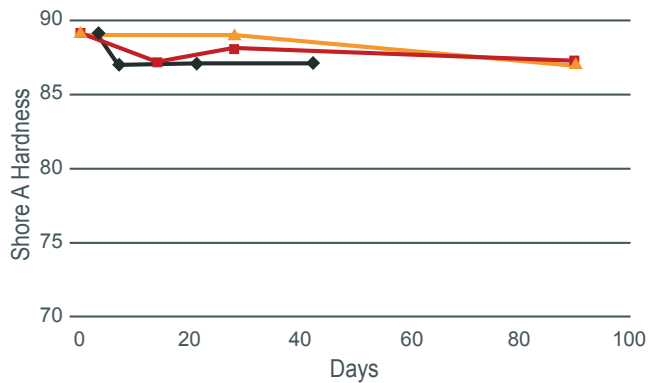
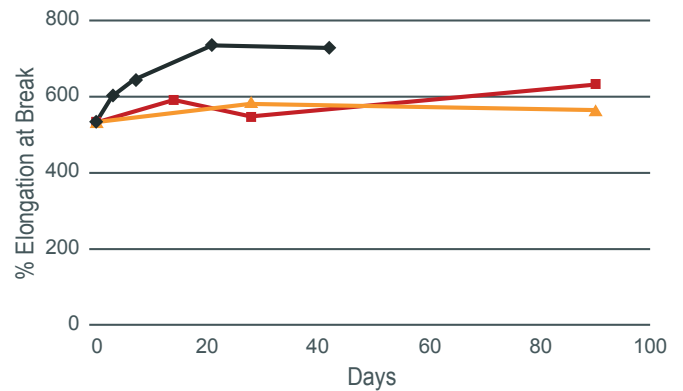
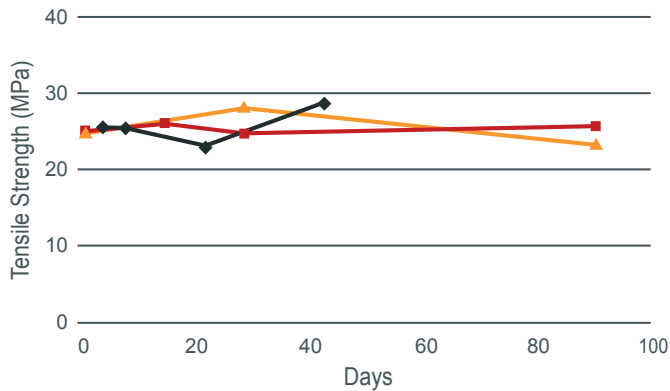
The HYPERLAST™ 301 system also enables excellent processing performance in a variety of applications due to its:

- Low viscosity, enabling tooling cost savings
- Broad range of hardness with a single prepolymer
- Better reactivity profile

## Typical Properties

Hardness (A)		90	85	70
Tensile Strength (MPa)	BS 903/A	29/4205	22/3190	22/3190
% Elongation at Break	BS 903/A	483	678	691
100% Modulus (MPa)	BS 903/A	7.7/1117	5.7/827	3.3/479
Resilience	Lupke Pendulum	32%	44%	49%
C-Tear Strength (N/mm)	Angle, BS903, Pt A3	92/525	77/440	56/320
Gel Time	100 g, 40°C	4 min	4.25 min	4.5 min
DIN Abrasion (mm <sup>3</sup> )	DIN 53516	59	79	67

The plots below show the excellent retention of mechanical properties in long-term hydrolytic aging at varied temperatures.



*Innovating For You*

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