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

<table>
<thead>
<tr>
<th>Property</th>
<th>BS 903/A</th>
<th>29/4205</th>
<th>22/3190</th>
<th>22/3190</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hardness (A)</td>
<td>90</td>
<td>85</td>
<td>70</td>
<td></td>
</tr>
<tr>
<td>Tensile Strength (MPa)</td>
<td></td>
<td>29/4205</td>
<td>22/3190</td>
<td>22/3190</td>
</tr>
<tr>
<td>% Elongation at Break</td>
<td></td>
<td>483</td>
<td>678</td>
<td>691</td>
</tr>
<tr>
<td>100% Modulus (MPa)</td>
<td></td>
<td>7.7/1117</td>
<td>5.7/827</td>
<td>3.3/479</td>
</tr>
<tr>
<td>Resilience</td>
<td>32%</td>
<td>44%</td>
<td>49%</td>
<td></td>
</tr>
<tr>
<td>C-Tear Strength (N/mm)</td>
<td>92/525</td>
<td>77/440</td>
<td>56/320</td>
<td></td>
</tr>
<tr>
<td>Gel Time</td>
<td>100 g, 40°C</td>
<td>4 min</td>
<td>4.25 min</td>
<td>4.5 min</td>
</tr>
<tr>
<td>DIN Abrasion (mm³)</td>
<td>DIN 53516</td>
<td>59</td>
<td>79</td>
<td>67</td>
</tr>
</tbody>
</table>

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

---

Innovating For You

For more information and product samples, contact us at your convenience:

dowpolyurethanes.com
dowpolyurethanes@dow.com

Dow North America
Toll-Free +1 800-441-4369
Toll +1 989-832-1426

The Dow Chemical Company
2030 Dow Center
Midland, MI 48674

Notice: No freedom from infringement of any patent owned by Dow or others is to be inferred. Because use conditions and applicable laws may differ from one location to another and may change with time, the Customer is responsible for determining whether products and the information in this document are appropriate for the Customer’s use and for ensuring that the Customer’s workplace and disposal practices are in compliance with applicable laws and other governmental enactments. The technology represented in this document may not yet be registered, and related products may not yet be available in all geographies where Dow is represented. The claims made may not have been approved for use in all countries. Dow assumes no obligation or liability for the information in this document. NO WARRANTIES ARE GIVEN; ALL IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE ARE EXPRESSLY EXCLUDED.

Notice: Any photographs of end-use applications in this document represent potential end-use applications but do not necessarily represent current commercial applications, nor do they represent an endorsement by Dow of the actual products. Further, these photographs are for illustration purposes only and do not reflect either an endorsement or sponsorship of any other manufacturer for a specific potential end-use product or application, or for specific products manufactured by Dow.

**Trademark of The Dow Chemical Company ("Dow") or an affiliated company of Dow**