Our Role in Single Ply Roofing Membranes
Within the roofing industry, demands are rising for affordable, high quality, functional and sustainable roofing solutions that will last. Roofing membranes must meet stringent norms and requirements for longevity, flexibility, weathering/UV resistance and fire performance. Installers also look for easy and reliable welding.

Dow has a substantial offering of polyolefin elastomers, complemented by in-depth formulation and application experience. We have global capabilities and collaborate with key technology leaders to create waterproofing solutions and systems of the future.

Dow Solutions
Dow’s portfolio of unique molecular architecture polymers are an ideal basis for roofing and waterproofing membranes. They are inherently versatile and can be tailored to our customers’ production processes, membrane designs and end-use. ENGAGE™ Polyolefin Elastomers, INFUSE™ Olefin Block Copolymers, NORDEL™ IP Hydrocarbon Rubber and VERSIFY™ Plastomers and Elastomers are well-known brands used throughout the industry.

Key Benefits
By using Dow Elastomers solutions in roofing applications, our customers can take advantage of a number of benefits, including:

- **Flexibility:** We have a range of flexible solutions which perform well, even in thicker sheet installations.
- **Longevity:** With day-in-day out exposure and use, roofs need to last. Our solutions help roof manufacturers offer a lifetime expectancy of 20+ years in properly formulated membranes.
- **Excellent welding of thermoplastic membranes:** Our range of polyolefins offers a broad welding window.
- **Fire performance:** We can help our customers to create roofing solutions based on halogen-free and low-smoke membranes, with low ignitability and low fuel load that achieve high standards of fire performance while maintaining flexibility.
- **Recyclability:** Membranes based on our polyolefins are plasticizer- and halogen-free and can be recycled easily.
Dow - Your Solutions Provider of Choice
We invest in our innovation pipeline and engage in partnerships with our value chain members to introduce the next generation of roofing solutions designed to keep up with the latest industry requirements.

Thermoplastic Polyolefin (TPO) Roofing with Excellent Weathering Performance

The revised requirements of ASTM D 6878 can be fulfilled without impacting stabilization, resin, and formulation. Dow Elastomers solutions have demonstrated no loss of surface quality or mechanical strength after up to 20,000 hours of weatherometer (WOM) testing:

Mechanical Properties of 1mm TPO Sheets after UV Exposure in WOM

Lab-scale Line Offers Fast Development Capabilities

Fast formulation capabilities and process know-how are critical to meet current and future customer demands. At our European headquarters in Horgen (Switzerland), we have invested in a lab-scale, direct-extrusion line for flexible membranes. Combining a co-rotating twin-screw extruder with a flat slit die and a three roll calender, this unit is a full simulation of the industrial production process. Accordingly, it offers the possibility for fast formulation development with subsequent scale-up. As a global solutions provider, we also have technical experts and testing facilities to support developments at our R&D centers in Freeport, Texas (USA), Shanghai (China) and Sao Paulo (Brazil).

Contact a Dow representative today to learn more.
For more information please visit www.dowelastomers.com.

<table>
<thead>
<tr>
<th>North America</th>
<th>Europe/Middle East</th>
<th>Asia Pacific</th>
<th>South Africa</th>
</tr>
</thead>
<tbody>
<tr>
<td>U.S. &amp; Canada</td>
<td>+ 1 800 441 4369</td>
<td>+ 800 7776 7776</td>
<td>+ 800 99 5078</td>
</tr>
<tr>
<td>Mexico</td>
<td>+ 1 989 832 1426</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>+ 1 800 441 4369</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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. 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. This document is intended for global use.

Data per tests conducted by Dow. Test protocols and additional information available upon request. Properties shown are typical, not to be construed as specifications.

™Trademark of The Dow Chemical Company (“Dow”) or an affiliated company of Dow