



## Technical Information

## ELVALOY™ 741

## Copolymer

| Description                          |  |                |          |
|--------------------------------------|--|----------------|----------|
| Product Description                  | ELVALOY™ 741 an ethylene/vinyl acetate/carbon monoxide (EVA/CO) copolymer.   |                |          |
| Restrictions                         |  |                |          |
| Material Status                      | Commercial: Active   |                |          |
| Other Restrictions                   | Dow recommends to consume the product within 18 months after date of production. See CoA (Certificate of Analysis) supplied with the resin to confirm date of manufacture. If no CoA is available, contact your Dow representative to determine the date of manufacture based on the production batch or lot number.   |                |          |
| Typical Characteristics              |  |                |          |
| Uses                                 | Polymer Modifier   |                |          |
| Features                             | Permanent, non-migrating PVC modifier. CPVC, TPU modifier.   |                |          |
| Characteristics / Benefits           | ELVALOY™ 741 copolymer deliver toughness and flexibility that is locked in to PVC. ELVALOY™ 741 copolymer will not migrate like liquid plasticizers.<br><br>Tensile Strength ----- 5.9 MPa ----- ASTM D638<br>Elongation @ Break ----- 950% ----- ASTM D638<br>Durometer Hardness ----- 70 Shore A ----- ASTM D2240<br>Molecular Weight Distribution ---- Normal ----- ASTM D3593  |                |          |
| Applications                         | ELVALOY™ 741 is a high molecular weight copolymer often used as a non-migrating, permanent PVC plastizer in roofing, geo-membranes, and other applications needing flexible pvc.   |                |          |
| Typical Properties                   |  |                |          |
| Physical                             | Nominal Values   | Test Method(s) |          |
| *Density ( )                         | 1 g/cm <sup>3</sup>  | ASTM D792      | ISO 1183 |
| *Melt Flow Rate ( 190°C/2.16kg)      | 35 g/10 min  | ASTM D1238     | ISO 1133 |
| Thermal                              | Nominal Values   | Test Method(s) |          |
| *Melting Point( DSC)                 | 66 °C ( 150.8 °F)  | ASTM D3418     | ISO 3146 |
| *Glass Transition Temperature ( DSC) | -32 °C ( -25.6 °F)   | ASTM D3418     |          |
| Processing Information               |  |                |          |
| *Maximum Processing Temperature      | 240 °C ( 464 °F )  |                |          |
| FDA Status Information               | ELVALOY™ 741 resin complies with Food and Drug Administration Regulation 21 CFR 175.105 - - Adhesives. This Regulation describes adhesives that may be used as components of articles intended for use in packaging, transporting, or holding food, subject to the limitations and requirements therein.<br><br>The information and certifications provided herein are based on data we believe to be reliable, to the best of our knowledge. The information and certifications apply only to the specific material designated herein as sold by Dow and do not apply to use in any process or in combination with any other material. They are provided at the request of and without charge to our customers. Accordingly, Dow cannot guarantee or warrant such certifications or information and assumes no liability for their use. |                |          |
| Regulatory Information               | For information on regulatory compliance outside of the U.S.A., consult your local Dow representative.   |                |          |

#### Safety & Handling

For information on appropriate Handling & Storage of this polymeric resin, please refer to the material Safety Data Sheet.

A Product Safety Bulletin, material Safety Data Sheet, and/or more detailed information on extrusion processing and/or compounding of this polymeric resin for specific applications are available from your Dow representative.

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- b. use in cardiac prosthetic devices regardless of the length of time involved (“cardiac prosthetic devices” include, but are not limited to, pacemaker leads and devices, artificial hearts, heart valves, intra-aortic balloons and control systems, and ventricular bypass-assisted devices);
- c. use as a critical component in medical devices that support or sustain human life; or
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