



## ELVALOY™ 742

### Copolymer

Description		
Product Description	ELVALOY™ 742 is an ethylene/vinyl acetate/carbon monoxide (EVA/CO) copolymer designed for polymer modification.	
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	
Composition	By Weight	
Features	Permanent, non-migrating PVC modifier. CPVC, TPU modifier.	
Characteristics / Benefits	ELVALOY™ 742 copolymer deliver toughness and flexibility that is locked in to PVC. ELVALOY™ 742 copolymer will not migrate like liquid plasticizers.	
	Tensile Strength ----- 4.2 MPa ----- ASTM D638 Elongation @ Break ----- 1200% ----- ASTM D638 Duromete Hardness ----- 55 Shore A ----- ASTM D2240 Molecular Weight Distribution ----- Normal ----- ASTM D3593	
Applications	PVC Modification	
Typical Properties		
Physical	Nominal Values	Test Method(s)
*Density ( )	1.02 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)	45°C ( 113°F )	ASTM D3417 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	<p>ELVALOY™ 742 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.</p> <p>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.</p>	
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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- long-term or permanent contact with internal bodily fluids or tissues. "Long-term" is contact which exceeds 72 continuous hours (or for PELLETHANE™ Polyurethane Elastomers only, which exceeds 30 days);
- 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);
- use as a critical component in medical devices that support or sustain human life; or
- use specifically by pregnant women or in applications designed specifically to promote or interfere with human reproduction.

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