



Dow Packaging & Specialty Plastics

Product Data Sheet

ELVALOY™ 742

Copolymer

General Information

Product Description ELVALOY™ 742 is an ethylene/vinyl acetate/carbon monoxide (EVA/CO) copolymer designed for polymer modification.

Status

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 ³	ASTM D792	ISO 1183
*Melt Flow Index (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

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.

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.

Product Stewardship

Dow has a fundamental concern for all who make, distribute, and use its products, and for the environment in which we live. This concern is the basis for our product stewardship philosophy by which we assess the safety, health, and environmental information on our products and then take appropriate steps to protect employee and public health and our environment. The success of our product stewardship program rests with each and every individual involved with Dow products - from the initial concept and research, to manufacture, use, sale, disposal, and recycle of each product.

Customer Notice

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For further information contact your Dow sales or technical representative to request a Medical Application Review Request Form.

Additional details of Dow's Medical Applications Policy are available at:

<https://www.dow.com/en-us/support/product-safety.html>

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Harmful Applications Policy

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http://www.dow.com/products_services

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P&SP Disclaimer

Additional Information

To contact Dow via Toll-Free or Local Toll phone numbers in specific countries, please see the following webpage:
<https://www.dow.com/en-us/support/contact-representative.html>

<http://www.dow.com>

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