

Dow Packaging & Speciality Plastics Product Data Sheet

ELVALOY™ HP441

Copolymer

Description						
Product Description	ELVALOY™ HP441 is a ethylene terpolymer, which is most commonly used as a modifier for a variety of other polymers.					
	E/nBA/CO = ethylene/n-butyl acrylate/carbon monoxide					
Restrictions						
Typical Characteristics						
Characteristics / Benefits	Tensile Elongation @ Break: 1213% ASTM D638 / ISO 527-2 Tensile Strength @ Break: 3.4 MPa (493 psi) ASTM D638 / ISO 527-2 Durometer Hardness: 59 Shore A ASTM 2240 / ISO 868					
Applications	Non-migratory plasticizer, and/or flex modifier for a variety of other polymers.					
Typical Properties						
Physical	Nominal Values		Test Method(s)			
*Density ()	0.98 g/cm ³	ASTM D792		ISO 1183		
*Melt Flow Rate (190°C/2.16kg)	8 g/10 min	ASTM D1238		ISO 1133		
Thermal	Nominal Values		Test Method(s)			
*Melting Point (DSC)	59°C (138.2°F)	ASTM D3418		ISO 3146		
*Glass Transition Temperature (Loss Modulus Peak at 1 Hz)	-54°C (-65.2°F)	ASTM D5418				
Processing Information						
*Maximum Processing Temperature	235 °C (455 °F)					

Regulatory Information

For information on regulatory compliance within or 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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Additional Information

North America		Europe/Middle	Europe/Middle East		Latin America	
U.S. & Canada:	1-800-441-4369 1-989-832-1426	All Countries	+31-11567-2626 +800-3694-6367	Argentina: Brazil:	+54-11-4319-0100 +55-11-5188-9000	
Mexico:	+1-800-441-4369	ltaly:	+800-783-825	Colombia: Mexico:	+57-1-219-6000 +52-55-5201-4700	
South Africa	+800-99-5078	Asia Pacific	+800-7776-7776 +60-3-7958-5392			

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