Elvax® 40L-03

Ethylene Vinyl Acetate Copolymer

DuPont Packaging & Industrial Polymers

Message:

DuPont™ Elvax® 40L-03 is an ethylene-vinyl acetate copolymer resin for use in industrial applications.
The melt index is consistent because resin molecular weight distribution is controlled to within a relatively narrow range. The molecular weight is high for this family of copolymers, so finished products will be relatively resistant to mechanical damage and elevated temperatures.
Compared with other ethylene/vinyl acetate copolymers, Elvax® 40L-03 contains extremely low amounts of gel, or high-molecular-weight polymer, that can cause undesirable characteristics in finished products.
Because Elvax® 40L-03 is somewhat crystalline, it is free flowing and does not mass during handling.
Uses
Industrial Applications z
Wire & Cable Applications
Wire Jacketing
Composition
40 % By Weight Vinyl Acetate comonomer content
Thermal Stabilizer: BHT antioxidant
Features
High Molecular Weight, High Viscosity
Applications
Elvax® resins can be used in a variety of applications involving molding, compounding, extrusion, adhesives, sealants, and wax blends. For additional information and properties associated with specific applications, please refer to the Grade Selector Guides found on the Elvax® website for industrial applications: http://www2.dupont.com/Elvax/en_US/tech_info/index.html
Elvax®40L-03 is especially well suited for use in jacketing compounds for automotive ignition and low-smoke cables, and as strippable semiconductive shields for power cables.
In these applications, the relatively narrow molecular weight distribution and the low gel properties help ensure that compounds will be consistent and finished products will be smooth-surfaced. Smooth, glossy surfaces are desirable because they can imply quality, while uniformity can enhance long-term performance.
Power cable semiconductive shields made with Elvax®40L-03 also benefit from the consistency of their compounds and low gel content. Any inconsistency in shields can lead to cable failure.

General Information	
Additive	Antioxidant
	Heat Stabilizer
Features	Antioxidant
	Copolymer
	Food Contact Acceptable
	Good Surface Finish
	Heat Stabilized
	High Molecular Weight
	High Viscosity
	Low Gel
	Narrow Molecular Weight Distribution
	Semi Crystalline
Uses	Adhesives
	Automotive Applications

	Blending
	Compounding
	Industrial Applications
	Sealants
	Wire & Cable Applications
	Wire Jacketing
Agency Ratings	FDA 21 CFR 177.1350 (d)
Forms	Pellets
Processing Method	Blow Molding
	Compounding
	Compression Molding
	Extrusion
	Foam Processing
	Injection Molding
	Sheet Extrusion
	Structural Foam Molding
	Wire & Cable Extrusion

Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.967	g/cm³	ASTM D792, ISO 1183
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	3.0	g/10 min	ASTM D1238, ISO 1133
Vinyl Acetate Content	40.0	wt%	
Thermal	**Nominal Value**	**Unit**	**Test Method**
Peak Melting Temperature	58.0	°C	ASTM D3418, ISO 3146
Freezing Point [1]			
--	26	°C	ISO 3146
--	26	°C	ASTM D3418
Injection	**Nominal Value**	**Unit**	
Processing (Melt) Temp	< 230	°C	
Extrusion	**Nominal Value**	**Unit**	
Melt Temperature	< 230	°C	
NOTE			
1.	DSC		

Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China