

DuPont Elvax® 40W Ethylene-Vinyl Acetate Copolymer Resin

Category : Polymer , Thermoplastic , Ethylene Vinyl Acetate , Ethylene Vinyl Acetate Copolymer (EVA), Adhesive/Sealant Grade

Material Notes:

Elvax® 40W has a higher vinyl acetate content compared with the other Elvax® resins resulting in higher elongation, reduced hardness, improved solubility and adhesion, and significant differences in compatibility. To minimize viscosity changes in hot melt blends during processing, Elvax® 40W also contains butylated hydroxytoluene(BHT). Elvax®40W is supplied in pellet form and to prevent the pellets from blocking, low levels of an amide wax have been added to the polymer. Typical Applications: Laminating adhesives for a variety of substrates including plastics and films. This grade provides the extended open time often needed in industrial assemblyLacquers for wood, metal, metal foils, paper, and filmsFabric and decal coatingsHeat-seal coatings for backing card stock used in blister packagingWood primers and sealers. Combinations of Elvax® 40W and nitrocellulose form the basis for wood sealers offering toughness and good intercoat adhesion Elvax® 40W is also suggested for use as a modifier in: Elastomer-based hot melt and hot melt pressure-sensitive adhesion formulationsNatural and synthetic elastomers to improve resistance to ozone crackingCaulks and sealants, including those based on asphaltAsphalt road repairing compositions for resurfacing, patching, and crack sealing to improve low temperature flexibility, strength properties, and adhesionTraffic paint formulationsSolvent-based and wax-based inksInformation provided by DuPont.

Order this product through the following link:

http://www.lookpolymers.com/polymer_DuPont-Elvax-40W-Ethylene-Vinyl-Acetate-Copolymer-Resin.php

Physical Properties	Metric	English	Comments
Density	0.965 g/cc	0.0349 lb/in ³	ASTM D1505
Viscosity Measurement	0.70 @Temperature 30.0 °C	0.70 @Temperature 86.0 °F	Inherent, 0.25 g/100mL toluene
Vinyl Acetate Content	40 %	40 %	DuPont Method
Melt Index of Compound	52 g/10 min	52 g/10 min	ASTM D1238, modified

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	40	40	10 seconds, Shore A-2; ASTM D2240
Tensile Strength at Break	4.80 - 6.20 MPa	696 - 899 psi	Samples die cut from pressed films, gage dimensions 2.23cm x 0.47cm x 0.13cm, crosshead speed 2in/min; ASTM D1708
Elongation at Break	1000 - 1300 %	1000 - 1300 %	Samples die cut from pressed films, gage dimensions 2.23cm x 0.47cm x 0.13cm, crosshead speed 2in/min; ASTM D1708
Tensile Modulus	0.00300 GPa	0.435 ksi	Samples die cut from pressed films, gage dimensions 2.23cm x 0.47cm x 0.13cm, crosshead speed 2in/min; ASTM D638

Thermal Properties	Metric	English	Comments
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Thermal Properties	Metric	English	Comments
Descriptive Properties			
Antioxidant		550 ppm	BHT
Odor		Slight	
Residual VA Monomer, wt%		<0.3	
Vinyl Acetate Content		40 wt.%	DuPont Method

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