

Ethylene – Vinyl Acetate (VA) copolymer with high VA content

Description

EVATANE[®] 33-45 is a random copolymer of Ethylene and Vinyl Acetate made by high-pressure radical polymerization process.

Applications

The high Vinyl Acetate content of EVATANE[®] 33-45 brings softness, flexibility and polarity. EVATANE[®] 33-45 is compatible with most tackifying resins and waxes. It is an efficient and easy handling product for hot melt adhesives formulations. EVATANE[®] 33-45 delivers high cohesive strength with most fillers and can be used to produce HFFR compounds. It can also be used as an additive for crude oil (pour point depressant), or bitumen modification. It is an ideal base polymer for semi-conductive compounds for medium voltage cables.

For more detailed information and recommendations regarding your specific application, please contact your local ARKEMA technical representative.

Typical properties

Characteristics	Value	Unit	Test Method
Vinyl Acetate Content	32-34	% Wt	FTIR (Internal Method)
Melt Index (190°C / 2.16 kg)	38-48	g/10min	ISO 1133 / ASTM D1238
Density (23°C)	0.96	g/cm ³	ISO 1183
Melting point	62	°C	ISO 11357-3
Vicat softening point (10N)	<40	°C	ISO 306 / ASTM D1525
Ring & Ball temperature	107	°C	ASTM E28
Elongation at break	900-1100	%	ISO 527 / ASTM D638
Tensile strength at break	9	MPa	ISO 527 / ASTM D638
Hardness Shore A	63	-	ISO 868 / ASTM D2240

Processing

EVATANE[®] 33-45 can be processed on most conventional equipments used for thermoplastics. It is recommended to avoid melt temperatures above 230°C and to purge the equipment after a run is completed.

Storage, handling and safety

EVATANE[®] 33-45 should be stored in standard conditions and protected from UV-light. Improper storage conditions may cause degradation and could have consequences on physical properties of the product.

Safety data sheet as well as information on handling and storage of the EVATANE[®] 33-45 is available upon request to your ARKEMA representative or on the web site www.evatane.com.

September 2010

The information contained in this document is based on trials carried out by our Research Centers and data selected from the literature, but shall in no event be held to constitute or imply any warranty, undertaking, express or implied commitment from our part. Our formal specifications define the limit of our commitment. No liability whatsoever can be accepted by Arkema with regard to the handling, processing or use of the products concerned which must in all cases be employed in accordance with all relevant laws and/or regulations in force in the country or countries concerned.

