

**COPOLYMER Ethylene – Vinyl Acetate (VA) with high content of VA****Description**

EVATANE® 33-45 is a random copolymer of Ethylene and Vinyl Acetate made by high-pressure radical polymerisation process. EVATANE® 33-45 is stabilized with antioxidants.

**Main application**

The High Vinyl Acetate content of EVATANE® 33-45 brings softness, flexibility and polarity. EVATANE® 33-45 is compatible with tackifying resins and waxes. It's a useful product for hot melt adhesives formulation. EVATANE® 33-45 delivers high cohesive strength with any kind of fillers (HFFR compounds). It can also be used as an additive for crude oil (pour point depressant) or bitumen.

**Specified properties**

Characteristics	Value	Unit	Test Method
Vinyl Acetate Content	32 - 34	% wt	FTIR (Internal)
Melt Index (190°C / 2.16 kg)	38 - 48	g/10mn	ASTM D 1238

**Physical properties**

Characteristics	Value	Unit	Test Method
Density (23°C)	0.96	g/cm <sup>3</sup>	ISO 1183
Melting point	62	°C	DSC
Vicat softening point (1 kg)	<40	°C	ASTM D 1525 / ISO 306
Ring & Ball temperature	107	°C	ASTM E28
Elongation at break	900-1100	%	ASTM D 638 / ISO R 527
Tensile strength at break	9	MPa	ASTM D 638 / ISO R 527
Hardness Shore A	63	-	ASTM D 2240 / ISO 868

**Processing**

EVATANE® 33-45 can be processed on any kind of conventional equipment used for thermoplastics. EVATANE® 33-45 should not be overheated during processing and It is recommended to do not have melt temperatures above 230°C and to purge the equipment after a run is completed.

**Storage**

EVATANE® 33-45 is available in pellet form and commonly packed in 25 kg PE bags on palettes of 1.375 tons. Other packaging can be considered (ask your Arkema's representative).

**Precautions of use**

A safety data sheet as well as information on handling and storage of the EVATANE® 33-45 are available close to your correspondent ARKEMA or on the site [www.arkema.com](http://www.arkema.com) under heading FDS/MSDS.

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