

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

**EVATANE<sup>®</sup> 40-55** is a random copolymer of Ethylene and Vinyl Acetate made by high-pressure radical polymerization process.

**Applications**

The high Vinyl Acetate content of **EVATANE<sup>®</sup> 40-55** brings softness, flexibility, polarity and high solubility. **EVATANE<sup>®</sup> 40-55** is compatible with most tackifying resins and waxes. Combined with a high fluidity, it is an efficient and easy handling product for hot melt adhesives formulations. **EVATANE<sup>®</sup> 40-55** delivers high cohesive strength with most fillers and can be used to produce HFFR cables formulations. It is suitable to produce medium and high voltage cable semi-conductive compounds, and to improve stress-cracking resistance of jackets. **EVATANE<sup>®</sup> 40-55** can also be used in solvent base adhesives and inks formulations. 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	38-41	% Wt	FTIR (Internal Method)
Melt Index (190°C / 2.16 kg)	48-62	g/10min	ISO 1133 / ASTM D1238
Density (23°C)	0.96	g/cm <sup>3</sup>	ISO 1183
Melting point	54	°C	ISO 11357-3
Vicat softening point (10N)	<40	°C	ISO 306 / ASTM D1525
Ring & Ball temperature	97	°C	ASTM E28
Elongation at break	900-1100	%	ISO 527 / ASTM D638
Tensile strength at break	7	MPa	ISO 527 / ASTM D638
Hardness Shore A	50	-	ISO 868 / ASTM D2240

**Processing**

**EVATANE<sup>®</sup> 40-55** 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<sup>®</sup> 40-55** 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. Due to its physical properties (Vicat temperature <40°C), it may be possible that the product shows some caking. This is particularly true during summer time.

Safety data sheet as well as information on handling and storage of the **EVATANE<sup>®</sup> 40-55** is available upon request to your ARKEMA representative or on the web site [www.evatane.com](http://www.evatane.com).

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