

# EVATANE<sup>®</sup> 33-400

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

### DESCRIPTION

EVATANE<sup>®</sup> 33-400 is a random copolymer of Ethylene and Vinyl Acetate made by high-pressure radical polymerization process.

### TYPICAL PROPERTIES

Characteristics	Value	Unit	Test Method
Vinyl Acetate content	32-34	% Wt	FTIR (Internal Method)
Melt Index (190°C / 2.16 kg)	350-450	g/10min	ISO 1133 / ASTM D1238
Density (23°C)	0.96	g/cm <sup>3</sup>	ISO 1183
Melting point	63	°C	ISO 11357-3
Vicat softening point (10N)	<40	°C	ISO 306 / ASTM D1525
Ring & Ball temperature	84	°C	ASTM E28 / NF EN 1238
Elongation at break	400-600	%	ISO 527 / ASTM D638
Tensile strength at break	4	MPa	ISO 527 / ASTM D638
Hardness Shore A	60	-	ISO 868 / ASTM D2240

### APPLICATIONS

The high Vinyl Acetate content of EVATANE<sup>®</sup> 33-400 brings softness, flexibility and polarity. EVATANE<sup>®</sup> 33-400 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.

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

### PROCESSING

EVATANE<sup>®</sup> 33-400 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.

# EVATANE® 33-400

## STORAGE, HANDLING AND SAFETY

EVATANE® 33-400 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® 33-400 is available upon request to your ARKEMA representative or on the web site [evatane.com](http://evatane.com).

## SHELF LIFE

Two years from the date of delivery, in unopened packaging. For any use above this limit, please refer to our technical services.

March 2018

The statements, technical information and recommendations contained herein are believed to be accurate as of the date hereof. Since the conditions and methods of use of the product and of the information referred to herein are beyond our control, ARKEMA expressly disclaims any and all liability as to any results obtained or arising from any use of the product or reliance on such information; NO WARRANTY OF FITNESS FOR ANY PARTICULAR PURPOSE, WARRANTY OF MERCHANTABILITY OR ANY OTHER WARRANTY, EXPRESSED OR IMPLIED, IS MADE CONCERNING THE GOODS DESCRIBED OR THE INFORMATION PROVIDED HEREIN.

The information provided herein relates only to the specific product designated and may not be applicable when such product is used in combination with other materials or in any process. The user should thoroughly test any application before commercialization. Nothing contained herein constitutes a license to practice under any patent and it should not be construed as an inducement to infringe any patent and the user is advised to take appropriate steps to be sure that any proposed use of the product will not result in patent infringement. See SDS for Health & Safety Considerations. Arkema has implemented a Medical Policy regarding the use of Arkema products in Medical Devices applications that are in contact with the body or circulating bodily fluids:

<http://www.arkema.com/en/social-responsibility/responsible-product-management/medical-devicepolicy/index.html>

Arkema has designated Medical grades to be used for such Medical Device applications. Products that have not been designated as Medical grades are not authorized by Arkema for use in Medical Device applications that are in contact with the body or circulating bodily fluids. In addition, Arkema strictly prohibits the use of any Arkema products in Medical Device applications that are implanted in the body or in contact with bodily fluids or tissues for greater than 30 days. The Arkema trademarks and the Arkema name shall not be used in conjunction with customers' medical devices, including without limitation, permanent or temporary implantable devices, and customers shall not represent to anyone else, that Arkema allows, endorses or permits the use of Arkema products in such medical devices.

It is the sole responsibility of the manufacturer of the medical device to determine the suitability (including biocompatibility) of all raw materials, products and components, including any medical grade Arkema products, in order to ensure that the final end-use product is safe for its end use; performs or functions as intended; and complies with all applicable legal and regulatory requirements (FDA or other national drug agencies) It is the sole responsibility of the manufacturer of the medical device to conduct all necessary tests and inspections and to evaluate the medical device under actual end-use requirements and to adequately advise and warn purchasers, users, and/or learned intermediaries (such as physicians) of pertinent risks and fulfill any post market surveillance obligations. Any decision regarding the appropriateness of a particular Arkema material in a particular medical device should be based on the judgment of the manufacturer, seller, the competent authority, and the treating physician.

Any claim relating to defects or non-compliance of the products shall be valid only if it is sent to Arkema in writing within fifteen (15) calendar days following delivery of the Product.