

BONDINE® TX8030

Ethylene – Acrylic Ester - Maleic Anhydride terpolymer

DESCRIPTION

BONDINE® TX8030 is a random terpolymer of ethylene, acrylic ester and maleic anhydride, polymerized by high-pressure autoclave process.

TYPICAL PROPERTIES

Characteristics	Value	Unit	Test Method
Ethyl Acrylate content	13	% Wt	FTIR (internal method)
Maleic Anhydride content	2.8	% Wt	FTIR (internal method)
Melt Index (190°C / 2.16 kg)	3	g/10min	ISO 1133 / ASTM D1238
Melting point	95	°C	ISO 11357-3
Density	0.94	g/cm ³	ISO 1183 / ASTM D1505
Vicat softening temperature (10N) ⁽¹⁾	65	°C	ISO 306 / ASTM D1525
Flexural modulus ⁽¹⁾	130	MPa	ISO 178 / ASTM D790
Elongation at break ⁽¹⁾	700	%	ISO 527-2 / ASTM D638
Tensile strength at break ⁽¹⁾	12	MPa	ISO 527-2 / ASTM D638
Hardness Shore D ⁽¹⁾	36		ISO 868 / ASTM D2240

⁽¹⁾ On compression molded samples.

APPLICATIONS

BONDINE® TX8030 is a versatile adhesive for extrusion coating or lamination, designed as:

- Concentrate to be used in dry blend with LDPE. **BONDINE® TX8030** improves adhesion of LDPE on aluminium foils, metallized or primerized films.
- Ready for use resin to be used pure. **BONDINE® TX8030** gives excellent adhesion on substrates likes aluminium foil, metallized plastics, paper, board, PE and its copolymers.
- Coextrusion tie layer for PE/PA in extrusion coating process.

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

BONDINE® TX8030

PROCESSING

As a result of high-pressure polymerization in autoclave reactor, **BONDINE® TX8030** molecular structure and rheology are remarkably suitable for all kinds of extrusion, including extrusion coating/lamination: low neck-in, excellent melt stability and drawability.

Standard polyolefin extrusion equipment can be used for **BONDINE® TX8030**, which has the same processability as LDPE and the same heat stability given by acrylate comonomers. Recommended temperature range is from 270°C up to 320 – 330°C. It is recommended to purge the equipment with LDPE after a run is completed before shutting down.

STORAGE, HANDLING AND SAFETY

BONDINE® TX8030 is usually packed in waterproof bags or rigid containers with waterproof liner. It should be stored in dry conditions and be kept out of moisture in an aerated building. Improper storage conditions may cause degradation and could have consequences on physical properties of the product. It is recommended to reseal the bag or the liner after use to protect **BONDINE® TX8030** against moisture.

Safety data sheet as well as information on handling and storage of the **BONDINE® TX8030** is available upon request to your ARKEMA representative or on the web site BONDINE.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.

February 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.