

LEARN MORE ABOUT

CROSS-LINKING

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Process that consists in modifying the properties of a material by irradiating it with gamma rays or an electron beam.





Heat resistance

Chemical resistance



Barrier properties





HOW DOES IT WORK?

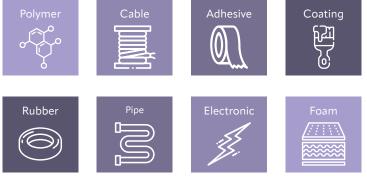
Cross-linking is a process of creating chemical bonds between polymer chains to turn their structure into a three-dimensional network. It can be accomplished through different methods, such as thermal, radiation, or chemical cross-linking.

Radiation cross-linking involves exposing the polymer to ionizing radiation, such as gamma or beta rays, to initiate the cross-linking reaction.

Cross-linking can enhance the physical and mechanical properties of polymers, such as their strength, stiffness, and resistance to heat, chemicals, and abrasion. Cross-linked plastics are used in a wide range of applications, including adhesives, coatings, composites, and elastomers.

The cross-linking process can also be used to modify the properties of natural polymers, such as proteins and polysaccharides, to create new materials with improved performance and functionality like hydrogels.

COMPATIBLE WITH A WIDE RANGE OF PRODUCTS



And many more...

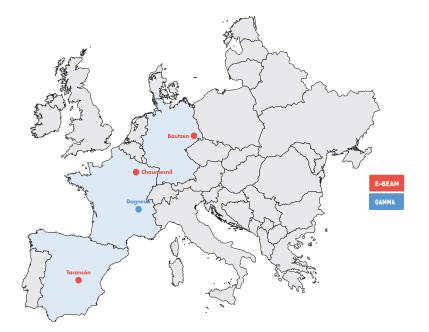
ISO CERTIFICATIONS

ISO 9001

All our cross-linking sites are ISO 9001 compliant. The ISO 9001 is the international standard that specifies requirements for a quality management system.

ISO 50001

Our Bautzen site is ISO 50001 compliant. The ISO 50001 standard groups the requirements for establishing, implementing, maintaining and improving an energy management system.



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