

VISIOMER® Methacrylates – a Versatile Toolbox for Crosslinking Solutions

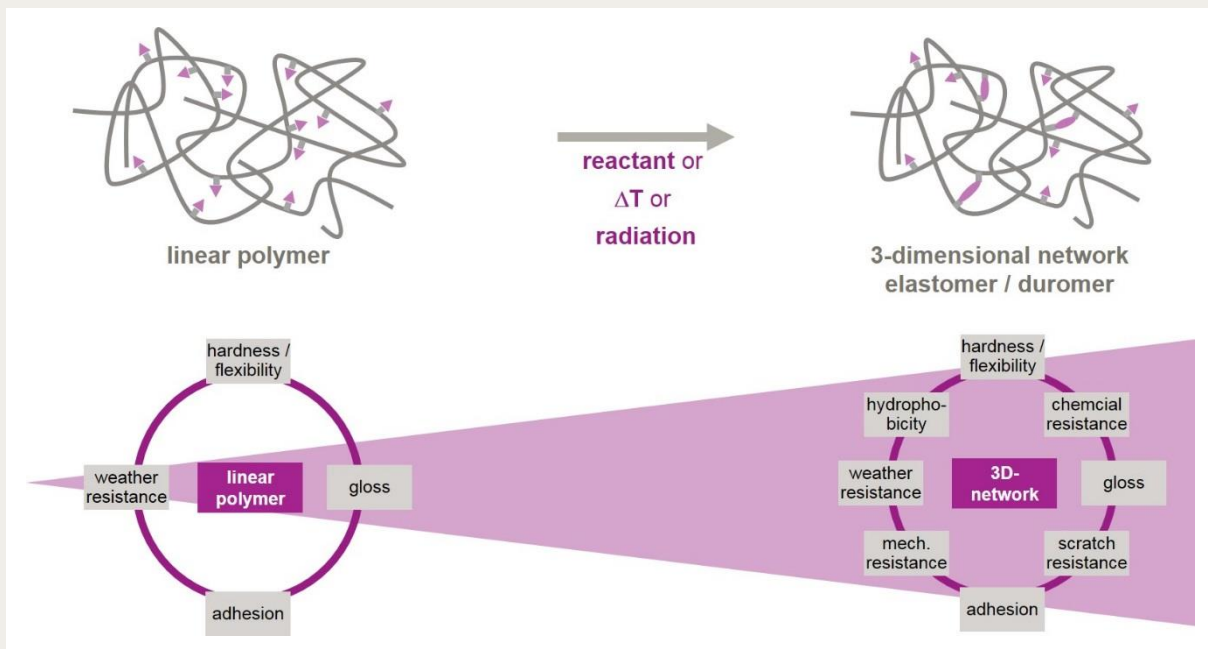
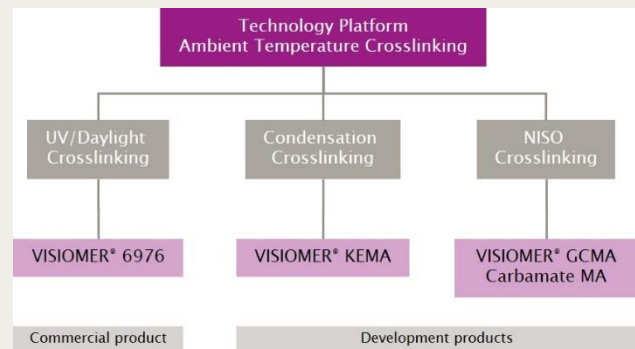
Crosslinking polymer resins is essential for many coatings and adhesive applications in order to provide outstanding final product properties after crosslinking. The industry therefore has a strong need for new innovative, energy efficient crosslinking methods.

Crosslinking resins consisting of linear polymer chains may be performed by applying heat, adding reactants or upon radiation depending on the initial functionalization of the resin. VISIOMER® methacrylate monomers are well known building blocks for polymer resins and are often used to introduce various functionalities for crosslinking.

Well established chemistries are for example the heat induced self-crosslinking using VISIOMER® N-MMAA in combination with VISIOMER® MAamide or VISIOMER® GMAA. The most prominent example though is the post-crosslinking of polyols by isocyanates or melamines using VISIOMER® HEMA or VISIOMER® HPMA as functional building blocks.

NEW CROSSLINKING OPTIONS

Evonik has a strong focus on the development of new ambient temperature and environmentally friendly crosslinking systems in its methacrylates tool box.



POST-CROSSLINKING BY UV/DAYLIGHT

VISIOMER® 6976, a solution of a benzophenone methacrylate derivative in other methacrylates, can be used as a co-monomer in solvent-based or aqueous systems. This new product is applied for post-crosslinking via UV or daylight. The use of VISIOMER® 6976 in reactive hotmelt adhesives can significantly increase cohesion after UV exposure.

NISO (NON-ISOCYANATE) CROSSLINKING

VISIOMER® GCMA (Glycerol carbonate methacrylate) and **Carbamate Methacrylate** are developmental products that provide the opportunity to crosslink and form stable urethane functionalities without using isocyanates.

CONDENSATION CROSSLINKING

VISIOMER® KEMA is a good alternative to acetoacetoxyethyl methacrylate or diacetone acrylamide for crosslinking of water-based coatings at ambient temperature.

VISIOMER® METHACRYLATES

Evonik Methacrylates is looking forward to support you in finding the best solution to your crosslinking challenges. Contact us for further information on the above-mentioned new developments.

OUR PROMISE TO YOU

- We are your methacrylate experts for both high volume and specialty monomers
- We are at your service with a globally available sales and applied technology organization
- We are your solution provider with tailor-made products and joint research & development projects!
- We support your growth through a reliable and flexible global production & technology network!
- We are looking for a long-term partnership and mutual value creation!

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Evonik Performance Materials GmbH

Business Line Methacrylates
Kirschenallee
64293 Darmstadt
Germany

Phone +49 6151 18-4671
visiomer@evonik.com
www.visiomer.com
www.evonik.com