Introducing radomes with Dyneema® Crystal Technology

Now the world’s strongest radome is invisible to microwaves

Dyneema® Crystal Technology is a new technology platform of Dyneema® for radomes. The ultra high molecular weight polyethylene material retains its electromagnetic properties in all radome configurations. This technology platform provides maximum transparency and protection over a wide range of frequencies.

Military
- Radomes made with Dyneema® Crystal Technology provide the highest level of protection and performance to sensitive and critical equipment in hostile military environments.

Commercial
- For all radar and antenna systems, using radomes made with Dyneema® Crystal Technology guarantees enduring performance at the highest level.

Telecoms
- The high transparency extends across a broad frequency range making Dyneema® Crystal Technology ideal for broadband applications in telecommunications. It is also the lightest and most durable choice.

The benefits of Dyneema® Crystal Technology

How do you design a radome that does not compromise the performance of your highly sensitive radar system?

It needs to offer reliable protection, with zero signal loss.

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• Crystal clear radar performance
• Minimum signal loss
• Broadband performance
• Low insertion loss

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New benchmark in performance

The electromagnetic properties of Dyneema® Crystal Technology outperform all other materials used for radomes. It will give your radar systems superior consistency and good stability in all required range of frequencies. The high tensile strength and low density enables it to be one of the world’s strongest materials, and yet very light.

Our services

Materials
- Solution engineering
- Manufacturing & supply

Design advice
- Consultation for engineering the total radome solution.

Dyneema® Crystal Technology is available in many product forms for radomes, based on bonded tape, UD and (coated) fabric.