

Covestro Makrolon[®] TC

Thermally Conductive Materials
for Heat Management
in LED Lighting and Beyond

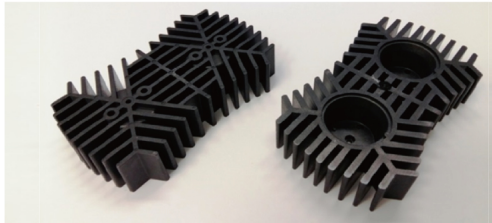
Makrolon[®]

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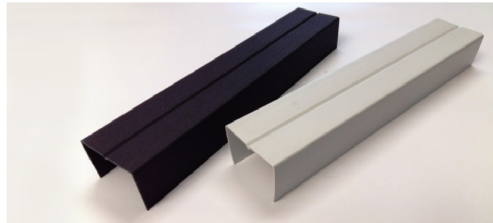


► High-performance Solution for Product Innovations of the Future

For decades, technical designers from countless industries and application fields have trusted the Makrolon® polycarbonates portfolio as high-performance solutions for the product innovations of the future. Benefit from our most recent achievement! The Makrolon® TC portfolio offers superior alternatives to aluminum and other thermally conductive plastics – from both your business' and your customers' perspective.



TC8030
TC611
TC511
TC411
TC210
TC110



TC511
TC411
TC210
TC110

They can be used for heat management in LED luminaires and other electrical applications. Primarily, they enable you to

- Replace the aluminum in heat sink applications to achieve approximately 50% weight reduction
- Enable more simplified and integrated luminaire design by integrating more functions and components
- Gain high dimensional stability with amorphous materials

Compared to aluminum and other TC plastics, they reduce complexity through integration and achieve weight savings of your products while meeting service life requirements. Technically, this means

- Customized thermal conductivity characteristics
- Easy processing and new design opportunities through increased flowability and of multi-component processing options

► Cost-Efficient Alternative to Aluminum and Other TC Plastics

Makrolon® TC, while still managing heat transfers safely, provides product advantages over aluminum through

- Significantly lower weight
- The option to be integrated with other components

This alternative is cost-efficient, because

- Its low density offers an attractive cost/weight ratio
- It does not require a base coat if painted

And compared with other forms of other TC plastics, Makrolon® TC provides product advantages in the form of

- High dimensional accuracy and low distortion tendency
- Excellent dimensional stability over a broad temperature range
- Increased long-term service temperature
- Combinability with other polycarbonates in multi-component processing
- Superior impact resistance of TC110

► Covestro, Your Innovation Partner

Covestro was the inventor of polycarbonate and has been championing it for decades. Our heritage and appreciation of partnerships enable us to push the boundaries in material science with customers and convert imagination into valuable products.

✉ If you want to know how Covestro makes the world a brighter place or whether Makrolon® TC is a fit for your next endeavor, please write to plastics@covestro.com for more information.



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The manner in which you use, and the purpose to which you put and utilize our products, technical assistance and information (whether verbal, written or by way of product evaluations), including any suggested formulations and recommendations, are beyond our control. Therefore, it is imperative that you test our products, technical assistance and information to determine, to your own satisfaction and requirements, whether our products, technical assistance and information are suitable for your intended uses and applications. This application specific analysis must at least include testing to determine suitability from a technical as well as health, safety, and environmental standpoints. Such testing has not necessarily been done by us. Unless we otherwise agree in writing, all products are sold strictly pursuant to the terms of our standard conditions of sale which are available upon request. All information and technical assistance is given without warranty or guarantee and is subject to change without notice. It is expressly understood and agreed that you assume and hereby expressly release us from all liability, in tort, contract or otherwise, incurred in connection with the use of our products, technical assistance, and information. Any statement or recommendation not contained herein is unauthorized and shall not bind us. Nothing herein shall be construed as a recommendation to use any product in conflict with any claim of any patent relative to any material or its use. No license is implied or in fact granted under the claims of any patent.



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