

# THERMOPLASTIC UD TAPES

ZOLTEK has developed a new class of carbon fiber polypropylene UD tapes in conjunction with A+ Composites made from Zoltek's PX35 50K carbon fiber tow. The tow is fully impregnated with polypropylene, yet is still extremely thin at 50  $\mu\text{m}$ . This is a first-of-its-kind product that is on par with regular tow applications but at the cost and availability of industrial, large tow carbon fibers. This new tape possesses remarkable properties.

- 50% fiber volume fraction
- 50  $\mu\text{m}$  thickness
- 50k Zoltek PX35 Carbon Fiber Tow
- 50  $\text{g}/\text{m}^2$  fiber aerial weight

Thin tapes such as these come with an array of advantages including, weight savings, increased mechanical performance, and they are suited for aesthetic applications. Additionally, very small bending radii can be realized, which means, winding applications with very small diameters and tighter radii in forming processes can be achieved.

For further information about these UD Tapes, please visit <https://aplus-composites.de/en/contact/>

