



Composites

Rigid PVC with enhanced dimensional stability.

With AuroraTec™ PVC Composites, enhanced dimensional stability is achieved. At more than twice the tensile or flexural modulus of typical PVC substrates, higher performance engineered profiles are possible. Combined with a lower coefficient of expansion, you also get significantly less contraction or expansion due to temperature fluctuations. AuroraTec PVC Composites are not only designed for versatility – they're also designed for usability, with a processing friendly material that won't wear processing equipment like other composites.

Customize to your application.

Whenever you need a stiffer substrate, AuroraTec PVC Composites can deliver. They're ideal for a variety of building and construction projects, both indoors and outdoors. Designed for interior non-weatherable applications, AuroraTec can also be capstocked

with AuroraShield™ for outdoor applications. And, customization to your specific needs is always possible. Our experts will work with you to create the right formulation, considering all factors that meet your application needs.



A composite unlike the rest.

We blend AuroraTec PVC Composites from a unique mixture of polymers and reinforcement materials, creating tensile and thermal properties that deliver for your project – as well as your equipment. Our proprietary formula features an abrasiveness that is similar to standard PVC, for processing that minimizes equipment wear and tear.

With AuroraTec PVC Composites you get all the benefits of traditional PVC plus:

- › High tensile or flexural modulus (stiffness) compared to traditional PVC.
- › Lower coefficient of expansion means less expansion and contraction due to temperature fluctuations.
- › Processing friendly material that won't wear down equipment like other composites.

AURORA PVC PELLET COMPOSITE COMPOUNDS				
Properties*	Test Method	Typical Substrate Compound	RR2800	RR2366
Specific Gravity ±0.02	ASTM D-792	1.46	1.50	1.55
Impact				
Notched Izod, ft.-lb./inch	ASTM D-256	5.0	0.70	1.0
Tensile Properties				
Tensile Strength @yield, psi	ASTM D-638	6,100	8,140	7,600
Tensile Modulus, psi		360,000	1,200,000	1,650,000
Flexural Properties				
Flexural Strength @yield, psi	ASTM D-790	11,500	14,300	12,600
Flexural Modulus, psi		400,000	900,000	1,200,000
Thermal Properties				
Heat Deflection Temp. @264 psi, °F [°C]	ASTM D-648	162°F [72°C]	165°F [74°C]	162 °F [72°C]
COE (thermal Expansion) In/in/ °F	ASTM D	3.4 x 10 ⁻⁵	2.0 x 10 ⁻⁵	1.8 x 10 ⁻⁵

*Composite materials tend to be lower impact. Take that into consideration when fabricating your final design.



Our plants' quality management systems are certified to ISO 9001:2015.



For more information on products and services from Aurora Material Solutions, call us today at **330.422.0700** or visit us at **www.auroramaterialsolutions.com**.