



# PROSPECTOR:COMPOSITES

THE ONLINE SOURCE FOR COMPOSITE MATERIAL INFORMATION | FIREHOLE COMPOSITES

## FINDING RELIABLE COMPOSITE MATERIAL DATA IS EASY WITH OUR POWERFUL ONLINE DATABASE

Prospector:Composites™ is an online, searchable database of composite material data sheets. It delivers a single location to obtain material data as well as quickly locate, compare and evaluate alternative candidate composites. In addition to manufacturer's supplied data, the database is populated with quality data from some of the world's foremost testing labs and research institutions, giving users information they can trust.

- Search over 250 materials
- Sort and compare candidate materials
- Email and export results
- Access from anywhere

Technical Properties <sup>2</sup>			
	Nominal Value	Unit	Test Method
<b>Mechanical</b>			
<b>Tensile Modulus</b>			
E11 - Longitudinal, 63 % Fv <sup>3</sup>	128	GPa	No Standard
E11 - Longitudinal, 63 % Fv <sup>4</sup>	128	GPa	
E22 - Transverse, 65 % Fv <sup>3</sup>	9.50	GPa	
E22 - Transverse, 65 % Fv <sup>4</sup>	9.70	GPa	
<b>Tensile Strength</b>			
S11 - Longitudinal, 63 % Fv <sup>3</sup>	1860	MPa	No Standard
S11 - Longitudinal, 63 % Fv <sup>4</sup>	1860	MPa	
S22 - Transverse, 65 % Fv <sup>3</sup>	60.0	MPa	
S22 - Transverse, 65 % Fv <sup>4</sup>	59.0	MPa	
<b>Shear Modulus</b>			
G12 - In-Plane, 65 % Fv <sup>3</sup>	5.00	GPa	No Standard
G12 - In-Plane, 60 % Fv <sup>3</sup>	5.90	GPa	
<b>Shear Strength</b>			
S12 - In-Plane, 56 % Fv <sup>4</sup>	72.0	MPa	No Standard

All data sheets include source information as well as a "Data Rating" to evaluate the quality of the data. Find just the data you need, or subscribe to the entire database. A wealth of information is within reach.

### Features

- ✓ QuickSearch for direct navigation to a particular product
- ✓ Search by general properties such as fiber, matrix, supplier or forms
- ✓ Engineering specific search functionality
- ✓ Sort, compare, email and export results
- ✓ 250 + materials from sources like MIL-HDBK-17, AGATE, test labs and research papers/journal articles
- ✓ Built in conjunction with IDES, a market leader in material data management

### Benefits

- ✓ Save valuable time spent searching for trustworthy composite material data
- ✓ Optimize your design by searching for alternative materials with desirable properties
- ✓ Improve reliability and maintainability through single source management of your composite material data
- ✓ Utilize the combined expertise of Firehole Composites and IDES to enable through access to material data

"Prospector:Composites lets me quickly compare all the important fiber and resin classes using data with a high quality and known pedigree. Without Prospector, this half day task would have taken me weeks. Thanks for the great tool!"

**Thomas Murphey, Ph.D.,**  
DR-III Deployable Structures Thrust Area Lead,  
Air Force Research Laboratory

For more information about Prospector:Composites, visit us at [www.firehole.com](http://www.firehole.com).

