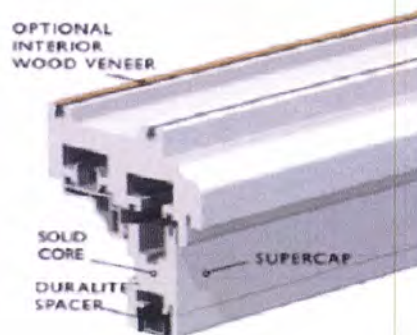


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The Polymers

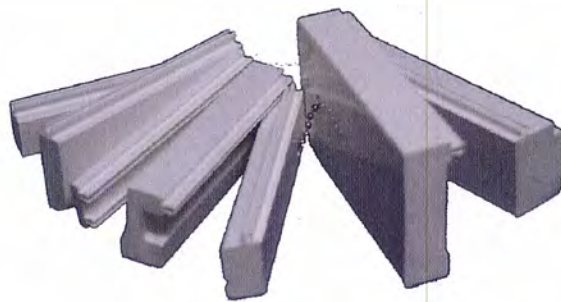
- ◆ What are polymers?
 - ◆ Why are the polymers so important in the manufacturing of the CompositWood windows?
-
- ◇ Polymers allow the CompositWood extrusions to be welded like rigid vinyl extrusions, but solid core and with full surface welded corners.
 - ◇ Polymers allow bending of shapes which cannot be done with fiberglass pultrusions.
 - ◇ Polymers allow for less expansion and contraction within the extrusions.



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The “K” Value

- ◆ How do the Polymers relate to the “K” Value?
 - ◆ What is Thermal Mass?
-
- ◆ Polymers help to create thermal mass in the extrusions which limits the loss of energy through solid materials and allows the CompositWood frames to be a poor conductor of cold and heat.
 - ◆ The K-Value is well known in the log home business to measure the thermal performance of solid logs.





Superior Thermal Performance

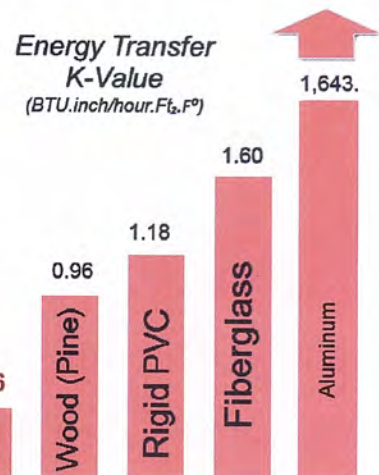
◆ How does CompositWood compare to other materials?

- ◆ • **63% lower** heat transfer value than pine
- ◆ • **69% lower** heat transfer value than hollow vinyl
- ◆ • **77% lower** heat transfer value than fiberglass
- ◆ • **4500% lower** heat transfer value than aluminum

Reduced thermal conductivity results in better condensation resistance and greater energy savings.

◆ **K-value of 0.36** approved by NFRC.

Reduced thermal conductivity results in better condensation resistance and greater energy savings.



Thermal Conductivity; NFRC data; **lower is better**



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One Final Note

- ◆ Other advantages of the polymers
 - ◆ Benefits of thermal mass
-
- ◆ The solid core frame material encapsulated in the super cap acrylic co-extruded shell creates the most efficient window and door extrusions.
 - ◆ CompositWood is made from a blend of acrylic resins and PVC polymers.
 - ◆ CompositWood frames and sash do not contain wood or other materials that would be a host for insect attack.
-
- ◆ Polymers resist mold and mildew.

