



National Fenestration Rating Council Bulletin

www.nfrc.org

February 12, 2015

Dear NFRC Members and Participants,

To more accurately reflect the materials and technologies used in building current and future windows, doors, and skylights, the NFRC 101 Thermophysical Properties of Materials Task Group is interested in revising and adding materials and thermophysical property data to the generic materials listings in NFRC 101.

NFRC is seeking assistance in identifying additional **specific** generic materials for potential inclusion in the NFRC 101 generic materials lists. These new material suggestions can represent generic materials that are notably absent or new applications of existing materials used in current or future fenestration designs.

For example, we might consider expanding the following material classifications in Appendices A and B based on known material usage in frame/sash lineals, spacers, stiffeners, impact glazing, glazing domes, flanges, sealants, door skins, panels, insulating glass components, etc.

Polymers/Rubbers:

- Adding additional polymers (such as foamed PVC and chlorinated PVC [cPVC]).
- Polysulfide
- Silicone 1-part standard modulus sealant
- Silicone 1-part high modulus Sealant
- Silicone 2-part standard modulus sealant
- Silicone 2-part high modulus sealant
- Warm applied curable butyl based sealant
- Butyl sealant
- Polyurethane 2-part sealant

Composites:

- Expanding Fiberglass to include specific base resins (Polyester, epoxy, etc.) and glass fiber loadings; as commonly used in window lineals and spacers.
- Possibly adding other generic composite materials commonly available in the market.

Wood based Panels:

- Expand to include other wood panel products such as OSB, LVL, possibly other cellulose-based panel products (such as wheat board or straw board).

Metals:

- Expanding Stainless Steel to include specific commodity alloys such as 304, 305, 316.
- Expanding Aluminum to include specific commodity alloys used in profile extrusion (6061, 6063, 6066, 7075) and in roll-formed cladding (6061, 7075, 1100, 3003, 3004, 3105)
- Consider adding other commodity metal alloys utilized as cladding materials for windows and doors, such as copper or bronze alloys
- Aluminum grades used in box spacer
- Stainless grades used in box- and U-spacer

Insulation:

- Different insulation chemistries if not currently included
- Expanding to include different densities- for example different density spray applied or rigid foam boards

Miscellaneous:

- Beaded desiccant (alumina oxide) - loose fill - bead diameter 2mm, 3mm, etc.

Ideally, we are seeking ***specific material*** suggestions. In addition, we will consider thermophysical property data if available and documented from a reliable source. The NFRC 101 Peer Review group/staff will ultimately verify published thermophysical property data from reputable published sources.

Please send suggestions to [Ray McGowan](#) for inclusion.

Regards,

NFRC 101 TG Members

NFRC is the recognized leader in energy performance rating and certification programs for fenestration products. Visit *NFRC News Now* for the latest fenestration-related information.

Make sure NFRC is on your Approved Sender's list to continue receiving bulletins, billings and other important NFRC e-mails.

6305 Ivy Lane, Suite 140, Greenbelt, MD 20770

If you wish to no longer receive this email, please [click here](#) to unsubscribe.