



## PEXIDAN W&C Insulation System Properties

| PEXIDAN®<br>Grade | General Characteristics                       |                  |                      |                 | Physical Properties             |            | Temperature Performance     |               |                     |
|-------------------|-----------------------------------------------|------------------|----------------------|-----------------|---------------------------------|------------|-----------------------------|---------------|---------------------|
|                   | End Use Application                           | Specific Gravity | Catalyst System      | FR Chemistry    | Tensile Strength                | Elongation | Low Temperature Brittleness | Deformation   | Hot Elongation      |
|                   |                                               | D792             |                      |                 | UL2556 / D638 @ 2"/min<br>(psi) | (%)        | ASTM D746<br>(°C)           | UL2556<br>(%) | ICEA T28-562<br>(%) |
| R/T               | CSA RW90 Insulation                           | 0.92             | CAT-009 /<br>CAT-019 | Non-FR          | 2400                            | 400        | below -75                   | <5            | <30                 |
| R/T-UV2           | CSA RW+RWU90 /<br>RPV+RPVU90 insul., SR       | 0.92             | CAT-288UV            | Non-FR          | 2400                            | 400        | below -75                   | <5            | <30                 |
| U/T               | UL USE-2 / URD /<br>5kV unshielded insulation | 0.92             | CAT-008              | Non-FR          | 2200                            | 400        | below -75                   | <5            | <30                 |
| X/T               | XHHW-2 / RHW-2 / USE-2<br>insulation          | 1.02             | CAT-005FR            | Halogen         | 2000                            | 375        | below -75                   | <5            | <40                 |
| X/T-UV            | XHHW-2 / RHW-2 / USE-2 /<br>PV, SR            | 1.02             | CAT-005FR-<br>UV1    | Halogen         | 2000                            | 375        | below -75                   | <5            | <40                 |
| X/T-UV2           | XHHW-2 / RHW-2 / USE-2,<br>PV, SR             | 1.02             | CAT-047FR-<br>UV2    | Halogen         | 2000                            | 375        | below -75                   | <5            | <40                 |
| V/T               | XHHW-2 / RHW-2, VW1                           | 1.32             | CAT-010FR            | Halogen         | 1850                            | 275        | below -50                   | <5            | <50                 |
| V/T-2             | XHHW-2 / RHW-2, VW1                           | 1.33             | CAT-045FR            | Halogen         | 2200                            | 400        | below -50                   | <5            | <45                 |
| V/T-2UV           | XHHW-2 / RHW-2 / PV, SR,<br>VW1               | 1.28             | CAT-083FR-<br>UV     | Halogen         | 2200                            | 400        | below -50                   | <5            | <45                 |
| H/T               | AWM, Coil Lead Wire ins.                      | 1.08             | CAT-012FR            | Halogen         | 2200                            | 300        | below -50                   | <10           | <45                 |
| J/T               | SAE / ISO Auto Primary<br>Wire Ins.           | 1.14             | CAT-012FR            | Halogen         | 2300                            | 300        | below -50                   | <10           | <50                 |
| HF X/T            | XHHW-2 / RHW-2, low<br>smoke                  | 1.41             | CM540U               | Halogen<br>Free | 2200                            | 400        | below -42                   | <15           | <35                 |
| HF V/T            | XHHW-2 / RHW-2, low<br>smoke                  | 1.64             | CM540U               | Halogen<br>Free | 2090                            | 170        | -                           | <10           | <45                 |

Properties and Performance continued on page 2...

# PEXIDAN W&C Insulation System Properties

| PEXIDAN®<br>Grade | Fire Performance                |                   | Rating                          |             | Electrical Properties                               |                          |                        |                       |                        |
|-------------------|---------------------------------|-------------------|---------------------------------|-------------|-----------------------------------------------------|--------------------------|------------------------|-----------------------|------------------------|
|                   | Flammability                    | LOI               | UL/CSA<br>Temperature<br>Rating |             | Insulation<br>Resistance at<br>Rated<br>Temperature | Relative<br>Permittivity | Dielectric<br>Constant | Dissipation<br>Factor | Volume<br>Resistivity  |
|                   | UL2556 (except J/T)<br>(rating) | ASTM D2863<br>(%) | UL1581 / C22.2 #38              |             | UL2556                                              | UL2556                   | ASTM D150              | ASTM D150             | ASTM D257              |
|                   |                                 | Dry (°C)          | Wet (°C)                        | (MΩ•1000ft) | (90°C & 60Hz)                                       | (@100MHz)                | (@100MHz)              | (Ω•cm @ 19°C)         |                        |
| R/T               | None                            | N/A               | 90                              | 90          | 240,000                                             | 2.38                     | 2.28                   | 0.00046               | 8.2 x 10 <sup>16</sup> |
| R/T-UV2           | None                            | N/A               | 90                              | 90          | 200,000                                             | -                        | -                      | -                     | -                      |
| U/T               | None                            | N/A               | 90                              | 90          | 210,000                                             | 2.38                     | 2.28                   | 0.00046               | 8.2 x 10 <sup>16</sup> |
| X/T               | FT2                             | 23.5              | 90                              | 90          | 21,000                                              | 2.50                     | 2.34                   | 0.0008                | 6.1 x 10 <sup>16</sup> |
| X/T-UV            | FT2                             | 23.5              | 90                              | 90          | 21,000                                              | 2.50                     | 2.34                   | 0.0008                | 6.1 x 10 <sup>16</sup> |
| X/T-UV2           | FT2                             | 23.5              | 90                              | 90          | 21,000                                              | 2.50                     | 2.34                   | 0.0008                | 6.1 x 10 <sup>16</sup> |
| V/T               | VW-1, FT4/CT-Use                | 27                | 90/105                          | 90          | 2,900                                               | 3.20                     | -                      | -                     | 6.1 x 10 <sup>16</sup> |
| V/T-2             | VW-1, FT4/CT-Use                | 27                | 90/105                          | 90          | 3,600                                               | 3.10                     | 2.49                   | 0.0014                | -                      |
| V/T-2UV           | VW-1, FT4/CT-Use                | 27                | 90/105                          | 90          | 3,600                                               | 3.10                     | 2.56                   | 0.0009                | -                      |
| H/T               | FT2                             | 25                | 150                             | -           | -                                                   | -                        | 2.37                   | 0.0008                | -                      |
| J/T               | J1128 45-degree                 | 26                | 125                             | -           | -                                                   | -                        | -                      | -                     | -                      |
| HF X/T            | FT2, FT4/CT-Use                 | 34                | 90                              | 90          | 110                                                 | 3.37                     | 2.98                   | 0.0027                | -                      |
| HF V/T            | FT2, VW1                        | 38                | 90                              | 90          | 45                                                  | 3.76                     | -                      | -                     | -                      |

The technical information contained herein is, to the best of our knowledge, believed to be accurate. However, SACO AEI Polymers makes no guarantee or warranty, and does not assume any liability, with respect to the accuracy or completeness of such information. Suitability of material for a specific final end use is the sole responsibility of the user. The data contained herein are typical properties only and are not to be used as specifications.

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