



# APEX® 80102

Teknor Apex Company - Flexible Polyvinyl Chloride

## General Information

### General

|                 |                                          |                             |                 |
|-----------------|------------------------------------------|-----------------------------|-----------------|
| Material Status | • Commercial: Active                     |                             |                 |
| Availability    | • Africa & Middle East<br>• Asia Pacific | • Europe<br>• Latin America | • North America |
| Uses            | • Insulation                             |                             |                 |
| Wire Types      | • TW                                     |                             |                 |
| Agency Ratings  | • UL 1063<br>• UL 1581                   | • UL 62<br>• UL 83          |                 |
| RoHS Compliance | • RoHS Compliant                         |                             |                 |
| Appearance      | • Opaque                                 |                             |                 |
| Forms           | • Pellets                                |                             |                 |

## ASTM & ISO Properties <sup>1</sup>

| Physical                             | Nominal Value | Unit | Test Method |
|--------------------------------------|---------------|------|-------------|
| Density / Specific Gravity           | 1.37          |      | ASTM D792   |
| Mechanical                           | Nominal Value | Unit | Test Method |
| Tensile Strength (Break)             | 3450          | psi  | ASTM D638   |
| Tensile Elongation (Break)           | 270           | %    | ASTM D638   |
| Hardness                             | Nominal Value | Unit | Test Method |
| Durometer Hardness (Shore C, 10 sec) | 77            |      | ASTM D2240  |
| Thermal                              | Nominal Value | Unit | Test Method |
| Continuous Use Temperature           | 167           | °F   | ASTM D794   |
| Brittleness Temperature              | 6.80          | °F   | ASTM D746   |
| Electrical                           | Nominal Value | Unit | Test Method |
| Dielectric Constant                  |               |      | ASTM D150   |
| 1 kHz                                | 4.03          |      |             |
| 1 MHz                                | 3.04          |      |             |
| Dissipation Factor                   |               |      | ASTM D150   |
| 1 kHz                                | 0.077         |      |             |
| 1 MHz                                | 0.043         |      |             |
| Flammability                         | Nominal Value | Unit | Test Method |
| Oxygen Index                         | 28            | %    | ASTM D2863  |

### Notes

<sup>1</sup> Typical properties: these are not to be construed as specifications.