



# APEX® 4020

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              | • Connectors<br>• Grommets               | • Plugs<br>• Strain Reliefs | • Wire & Cable Applications |
| Wire Types        | • Molded Components                      |                             |                             |
| Agency Ratings    | • UL QMFZ2                               |                             |                             |
| RoHS Compliance   | • RoHS Compliant                         |                             |                             |
| Appearance        | • Opaque                                 |                             |                             |
| Forms             | • Pellets                                |                             |                             |
| Processing Method | • Injection Molding                      |                             |                             |

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

| Physical                                    | Nominal Value  | Unit  | Test Method |
|---------------------------------------------|----------------|-------|-------------|
| Density / Specific Gravity                  | 1.40           |       | ASTM D792   |
| Molding Shrinkage - Flow                    | 0.010 to 0.012 | in/in | ASTM D955   |
| Mechanical                                  | Nominal Value  | Unit  | Test Method |
| Tensile Strength (Break)                    | 2550           | psi   | ASTM D638   |
| Tensile Elongation (Break)                  | 150            | %     | ASTM D638   |
| Flexural Modulus                            | 29000          | psi   | ASTM D790   |
| Hardness                                    | Nominal Value  | Unit  | Test Method |
| Durometer Hardness (Shore C, 10 sec)        | 82             |       | ASTM D2240  |
| Thermal                                     | Nominal Value  | Unit  | Test Method |
| Continuous Use Temperature                  | 140            | °F    | ASTM D794   |
| Brittleness Temperature                     | 23.0           | °F    | ASTM D746   |
| RTI Elec                                    |                |       | UL 746      |
| 0.03 in                                     | 194            | °F    |             |
| 0.12 in                                     | 194            | °F    |             |
| RTI Str                                     |                |       | UL 746      |
| 0.03 in                                     | 194            | °F    |             |
| 0.12 in                                     | 194            | °F    |             |
| Electrical                                  | Nominal Value  | Unit  | Test Method |
| Comparative Tracking Index (CTI) (0.118 in) | PLC 0          |       | UL 746      |
| High Amp Arc Ignition (HAI) (0.12 in)       | PLC 2          |       | UL 746      |
| Hot-wire Ignition (HWI) (0.12 in)           | PLC 1          |       | UL 746      |
| Flammability                                | Nominal Value  | Unit  | Test Method |
| Flame Rating                                |                |       | UL 94       |
| 0.03 in                                     | V-0            |       |             |
| 0.12 in                                     | V-0            |       |             |
| Oxygen Index                                | 31             | %     | ASTM D2863  |

### Additional Information

Temperature Rating: 60 °C

Recognized Component, CSA C22.2 No. 0.6, CSA Flammability Classification: 0.6V-0 @ 0.84 mm

APEX® 4020

Teknor Apex Company - Flexible Polyvinyl Chloride

| Processing Information |               |      |
|------------------------|---------------|------|
| Injection              | Nominal Value | Unit |
| Processing (Melt) Temp | 380           | °F   |

Notes

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