

# APEX® 1020

Semi-Rigid Polyvinyl Chloride

Teknor Apex Company

## Message:

APEX® 1020 is a semi-rigid polyvinyl chloride material. This product is available in North America, Africa and the Middle East, Latin America, Europe or Asia Pacific. The processing method is injection molding.

APEX® The main features of the 1020 are:

- flame retardant/rated flame
- ROHS certification

Typical application areas include:

- Wire and cable
- engineering/industrial accessories
- Electrical/electronic applications

| General Information                  |                              |                   |             |
|--------------------------------------|------------------------------|-------------------|-------------|
| UL YellowCard                        | E54709-245323                | E142591-543076    |             |
| Uses                                 | Plug                         |                   |             |
|                                      | Washer                       |                   |             |
|                                      | Connector                    |                   |             |
|                                      | Fatigue elimination supplies |                   |             |
| Wire Types                           | Molded member                |                   |             |
| RoHS Compliance                      | RoHS compliance              |                   |             |
| Appearance                           | Opacity                      |                   |             |
| Forms                                | Particle                     |                   |             |
| Processing Method                    | Injection molding            |                   |             |
| Physical                             | Nominal Value                | Unit              | Test Method |
| Specific Gravity                     | 1.39                         | g/cm <sup>3</sup> | ASTM D792   |
| Molding Shrinkage - Flow             | 1.0 - 1.2                    | %                 | ASTM D955   |
| Hardness                             | Nominal Value                | Unit              | Test Method |
| Durometer Hardness (Shore C, 10 sec) | 75                           |                   | ASTM D2240  |
| Mechanical                           | Nominal Value                | Unit              | Test Method |
| Tensile Strength (Break)             | 17.2                         | MPa               | ASTM D638   |
| Tensile Elongation (Break)           | 160                          | %                 | ASTM D638   |
| Thermal                              | Nominal Value                | Unit              | Test Method |
| Brittleness Temperature              | 1.00                         | °C                | ASTM D746   |
| RTI Elec                             |                              |                   | UL 746      |
| 0.890 mm                             | 90.0                         | °C                | UL 746      |
| 1.20 mm                              | 90.0                         | °C                | UL 746      |
| 3.00 mm                              | 90.0                         | °C                | UL 746      |
| RTI                                  |                              |                   | UL 746      |
| 0.890 mm                             | 80.0                         | °C                | UL 746      |
| 1.20 mm                              | 90.0                         | °C                | UL 746      |

| 3.00 mm                                                      | 90.0          | °C   | UL 746      |
|--------------------------------------------------------------|---------------|------|-------------|
| Electrical                                                   | Nominal Value | Unit | Test Method |
| Comparative Tracking Index (CTI) (3.00 mm)                   | PLC 0         |      | UL 746      |
| High Amp Arc Ignition (HAI) (3.00 mm)                        | PLC 1         |      | UL 746      |
| Hot-wire Ignition (HWI) (3.00 mm)                            | PLC 1         |      | UL 746      |
| Flammability                                                 | Nominal Value | Unit | Test Method |
| Flame Rating                                                 |               |      | UL 94       |
| 1.20 mm                                                      | HB            |      | UL 94       |
| 3.00 mm                                                      | HB            |      | UL 94       |
| Oxygen Index                                                 | 25            | %    | ASTM D2863  |
| Additional Information                                       |               |      |             |
| 插头温度额定值:60°C认证部件,CSA C22.2 No. 0.6,CSA 可燃性等级:0.6HB @ 0.88 毫米 |               |      |             |
| Injection                                                    | Nominal Value | Unit |             |
| Processing (Melt) Temp                                       | 193           | °C   |             |

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