

# APEX® 6500-80

Flexible Polyvinyl Chloride

Teknor Apex Company

## Message:

APEX® 6500-80 is a flexible 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 6500-80 are:

- flame retardant/rated flame
- ROHS certification

Typical application areas include:

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

| General Information                  |                              |                   |             |
|--------------------------------------|------------------------------|-------------------|-------------|
| UL YellowCard                        | E54709-245302                | E142591-543055    |             |
| Uses                                 | Plug                         |                   |             |
|                                      | Washer                       |                   |             |
|                                      | Connector                    |                   |             |
|                                      | Fatigue elimination supplies |                   |             |
| Wire Types                           | Molded member                |                   |             |
| Agency Ratings                       | UL QMFZ2 .E54709             |                   |             |
| RoHS Compliance                      | RoHS compliance              |                   |             |
| Appearance                           | Clear/transparent            |                   |             |
| Forms                                | Particle                     |                   |             |
| Processing Method                    | Injection molding            |                   |             |
| Physical                             | Nominal Value                | Unit              | Test Method |
| Specific Gravity                     | 1.23                         | 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 A, 15 sec) | 80                           |                   | ASTM D2240  |
| Mechanical                           | Nominal Value                | Unit              | Test Method |
| Tensile Strength (Break)             | 17.0                         | MPa               | ASTM D638   |
| Tensile Elongation (Break)           | 340                          | %                 | ASTM D638   |
| Thermal                              | Nominal Value                | Unit              | Test Method |
| Continuous Use Temperature           | 60.0                         | °C                | ASTM D794   |
| Brittleness Temperature              | -29.0                        | °C                | ASTM D746   |
| RTI Elec (1.50 mm)                   | 50.0                         | °C                | UL 746      |
| RTI Imp (1.50 mm)                    | 50.0                         | °C                | UL 746      |
| RTI (1.50 mm)                        | 50.0                         | °C                | UL 746      |
| Flammability                         | Nominal Value                | Unit              | Test Method |
| Flame Rating (1.50 mm)               | HB                           |                   | UL 94       |

|                        |               |      |            |
|------------------------|---------------|------|------------|
| Oxygen Index           | 23            | %    | ASTM D2863 |
| Additional Information |               |      |            |
| 温度额定值:60 °C            |               |      |            |
| Injection              | Nominal Value | Unit |            |
| Processing (Melt) Temp | 179           | °C   |            |

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