



# APEX® 7500-85

Teknor Apex Company - Flexible Polyvinyl Chloride

## General Information

### General

|                      |                                                                                                                                                                                                                                      |                                                    |                 |
|----------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------|-----------------|
| Material Status      | • Commercial: Active                                                                                                                                                                                                                 |                                                    |                 |
| Availability         | • Africa & Middle East<br>• Asia Pacific                                                                                                                                                                                             | • Latin America<br>• North America                 |                 |
| Features             | • Flame Retardant                                                                                                                                                                                                                    | • Plasticized                                      |                 |
| Uses                 | • Connectors<br>• Electrical Parts                                                                                                                                                                                                   | • Electrical/Electronic Applications<br>• Grommets | • Plugs         |
| Agency Ratings       | • UL QMFZ2                                                                                                                                                                                                                           |                                                    |                 |
| Regulatory Statement | • Due to the frequent updates to regulations, specifically, California Proposition 65, EU REACH SVHCs, and RoHS, please contact Teknor Apex for the most up to date compliance statement, or refer to section 15 of the product SDS. |                                                    |                 |
| Appearance           | • Clear/Transparent                                                                                                                                                                                                                  | • Colors Available                                 | • Glossy Finish |
| Forms                | • Pellets                                                                                                                                                                                                                            |                                                    |                 |
| Processing Method    | • Injection Molding                                                                                                                                                                                                                  | • Overmolding                                      |                 |

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

| Physical                                        | Nominal Value | Unit | Test Method |
|-------------------------------------------------|---------------|------|-------------|
| Density / Specific Gravity                      | 1.21          |      | ASTM D792   |
| Mechanical                                      | Nominal Value | Unit | Test Method |
| Tensile Strength (Break)                        | 2500          | psi  | ASTM D638   |
| Tensile Elongation (Break)                      | 220           | %    | ASTM D638   |
| Hardness                                        | Nominal Value | Unit | Test Method |
| Durometer Hardness (Shore A, 15 sec, Hand Held) | 85            |      | ASTM D2240  |
| Thermal                                         | Nominal Value | Unit | Test Method |
| Continuous Use Temperature                      | 221           | °F   | ASTM D794   |
| Brittleness Temperature                         | -29.2         | °F   | ASTM D746   |
| RTI Elec                                        |               |      | UL 746B     |
| 0.04 in                                         | 122           | °F   |             |
| 0.06 in                                         | 122           | °F   |             |
| 0.12 in                                         | 122           | °F   |             |
| RTI Imp                                         |               |      | UL 746B     |
| 0.04 in                                         | 122           | °F   |             |
| 0.06 in                                         | 122           | °F   |             |
| 0.12 in                                         | 122           | °F   |             |
| RTI Str                                         |               |      | UL 746B     |
| 0.04 in                                         | 122           | °F   |             |
| 0.06 in                                         | 122           | °F   |             |
| 0.12 in                                         | 122           | °F   |             |

APEX® 7500-85

Teknor Apex Company - Flexible Polyvinyl Chloride

| Electrical                  | Nominal Value | Unit    | Test Method |
|-----------------------------|---------------|---------|-------------|
| Volume Resistivity          | 1.0E+12       | ohms·cm | ASTM D257   |
| High Amp Arc Ignition (HAI) |               |         | UL 746A     |
| 0.03 in                     | PLC 2         |         |             |
| 0.06 in                     | PLC 0         |         |             |
| 0.12 in                     | PLC 0         |         |             |
| Hot-wire Ignition (HWI)     |               |         | UL 746A     |
| 0.03 in                     | PLC 4         |         |             |
| 0.06 in                     | PLC 3         |         |             |
| 0.12 in                     | PLC 3         |         |             |
| Flammability                | Nominal Value | Unit    | Test Method |
| Flame Rating                |               |         | UL 94       |
| 0.04 in                     | HB            |         |             |
| 0.06 in                     | HB            |         |             |
| 0.12 in                     | HB            |         |             |
| Oxygen Index                | 23            | %       | ASTM D2863  |

Additional Information

Data Sheet Applies to Colors Listed Below:

Water Clear (0109479)

Yellow 444H (1036204)

Black (0117083)

3/20-lc

Notes

<sup>1</sup>

Typical properties: these are not to be construed as specifications.