



# Vital-Line SHE4001

Teknor Apex Asia Pacific PTE. LTD. - Flexible Polyvinyl Chloride

## General Information

### Product Description

Vital-Line SHE 4001 is a Polyvinyl Chloride Medical Extrusion Compound available in pellet form.

### General

|                   |                                                      |
|-------------------|------------------------------------------------------|
| Material Status   | • Commercial: Active                                 |
| Availability      | • Asia Pacific                                       |
| Features          | • Ethylene Oxide Sterilizable • Non-DEHP Plasticizer |
| Uses              | • Medical/Healthcare Applications                    |
| Forms             | • Pellets                                            |
| Processing Method | • Extrusion                                          |

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

| Physical                                | Nominal Value | Unit | Test Method   |
|-----------------------------------------|---------------|------|---------------|
| Density / Specific Gravity              | 1.23          |      | ASTM D792     |
| Mechanical                              | Nominal Value | Unit | Test Method   |
| Tensile Strength <sup>2</sup> (Break)   | 2900          | psi  | ASTM D638     |
| Tensile Elongation <sup>2</sup> (Break) | 310           | %    | ASTM D638     |
| Hardness                                | Nominal Value | Unit | Test Method   |
| Durometer Hardness (Shore A)            | 82            |      | ASTM D2240    |
| Thermal                                 | Nominal Value | Unit | Test Method   |
| Thermal Stability (374°F)               | > 30          | min  | ASTM D2115-92 |

### Additional Information

Typical temperature profile for processing compound is from 145oC to 175oC. The optimum temperatures depend on the type of machine as well as screw design being used to process.

Feeding zone 145°C

Compression zone 145°C ~ 155°C

Mixing zone 150°C ~ 165°C

Nozzle / Die zone 160°C ~ 175°C

### Notes

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

<sup>2</sup> 20 in/min