

# Unichem 9812A-03

Flexible Polyvinyl Chloride

Colorite Polymers

## Message:

Unichem 9812A-03 is a Flexible Polyvinyl Chloride product. It can be processed by injection molding and is available in North America. Applications of Unichem 9812A-03 include food contact applications and medical/healthcare.

Characteristics include:

Heat Resistant

Rigid

| General Information          |                                      |                   |             |
|------------------------------|--------------------------------------|-------------------|-------------|
| Features                     | Good Thermal Stability               |                   |             |
|                              | Semi Rigid                           |                   |             |
| Uses                         | Food Service Applications            |                   |             |
|                              | Medical/Healthcare Applications      |                   |             |
| Agency Ratings               | FDA Food Contact, Unspecified Rating |                   |             |
| Appearance                   | Clear/Transparent                    |                   |             |
| Forms                        | Pellets                              |                   |             |
| Processing Method            | Injection Molding                    |                   |             |
| Physical                     | Nominal Value                        | Unit              | Test Method |
| Specific Gravity             | 1.31                                 | g/cm <sup>3</sup> | ASTM D792   |
| Hardness                     | Nominal Value                        | Unit              | Test Method |
| Durometer Hardness (Shore D) | 65                                   |                   | ASTM D2240  |
| Mechanical                   | Nominal Value                        | Unit              | Test Method |
| Tensile Strength (Yield)     | 22.8                                 | MPa               | ASTM D638   |
| Tensile Elongation (Yield)   | 200                                  | %                 | ASTM D638   |
| Elastomers                   | Nominal Value                        | Unit              | Test Method |
| Tensile Stress (100% Strain) | 20.7                                 | MPa               | ASTM D412   |
| Thermal                      | Nominal Value                        | Unit              | Test Method |
| Brittleness Temperature      | 10.0                                 | °C                | ASTM D746   |
| Injection                    | Nominal Value                        | Unit              |             |
| Processing (Melt) Temp       | 163 to 168                           | °C                |             |
| Mold Temperature             | 10.0 to 37.8                         | °C                |             |
| Back Pressure                | 0.689 to 2.76                        | MPa               |             |
| Screw Speed                  | 40 to 100                            | rpm               |             |
| Screw Compression Ratio      | 2.0:1.0 to 3.0:1.0                   |                   |             |

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