

## - Flexible Polyvinyl Chloride

Friday, June 30, 2017

### General Information

#### Product Description

Vital-Line SHE 7705 is a Non-Phthalate Polyvinyl Chloride Medical Extrusion Compound available in pellet form. It provides Good Stability performance suitable for Medical Devices.

#### General

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

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

Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.18		ASTM D792
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield, 19.7 in)	1890	psi	ASTM D638
Tensile Elongation (Break)	380	%	ASTM D638
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore A)	61		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 135°C to 180°C. The optimum temperatures depend on the type of machine as well as screw design being used to process.

Feeding Zone 135°C

Compression zone 145°C ~ 155°C

Mixing zone 155°C ~ 180°C

Nozzle / Die zone 165°C ~ 175°C

#### Notes

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

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Revision Date: 6/17/2015

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