

# Vital-Line SHM2507G1

## - Flexible Polyvinyl Chloride

Friday, June 30, 2017

### General Information

#### Product Description

Vital-Line SHM 2507G1 is a Polyvinyl Chloride Medical Molding Compound available in granular form.

#### General

Material Status	• Commercial: Active
Availability	• Asia Pacific
Features	• Non-DEHP Plasticizer • Radiation Sterilizable
Uses	• Connectors • Medical/Healthcare Applications
Forms	• Granules
Processing Method	• Injection Molding

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

Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.26		ASTM D792
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength	2470	psi	ASTM D638
Tensile Elongation (Break)	250	%	ASTM D638
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore A)	86		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 140oC to 190oC. The optimum temperatures depend on the type of machine as well as screw design being used to process.

Feeding zone :140°C  
 Barrel zone :160°C ~ 175°C  
 Nozzle zone :170°C ~ 182°C  
 Melt temperature :180°C ~ 190°C  
 Mold temperature :0 °C ~ 50°C

#### Notes

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

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