

- Flexible Polyvinyl Chloride

Friday, June 30, 2017

General Information

Product Description

Vital-Line SHM 3408 is a non-phthalate Polyvinyl Chloride Medical Molding Compound available in pellet form. It provides ETO 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 ¹

Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.26		ASTM D792
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ²	1740	psi	ASTM D638
Tensile Elongation (Break)	200	%	ASTM D638
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore A)	90		ASTM D2240
Thermal	Nominal Value	Unit	Test Method
Heat Stability (374°F)	> 30.0	min	ASTM D2115-92

Additional Information

Typical temperature profile for processing compounding is from 150oC to 185oC. The optimum temperatures depend on the type of machine as well as screw design being used to process.

Feeding zone: 150oC
 Barrel zone: 160oC to 175oC
 Nozzle zone: 170oC to 185oC
 Mold temperature: 0oC to 50oC

Notes

¹ Typical properties: these are not to be construed as specifications.

² 20 in/min

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