



Vital-Line SMM3707D

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

General Information

Product Description

Vital-Line SMM 3707 is a Polyvinyl Chloride Medical Molding Compound available in pellet form.

General

Material Status	• Preliminary Data
Availability	• Asia Pacific
Features	• Ethylene Oxide Sterilizable • Non-Phthalate Plasticizer
Uses	• Medical/Healthcare Applications
Forms	• Pellets
Processing Method	• Injection Molding

ASTM & ISO Properties ¹

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	1.33		ASTM D792
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	381000	psi	ASTM D638
Tensile Strength ² (Yield)	5800	psi	ASTM D638
Tensile Elongation (Break)	150	%	ASTM D638
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D)	78		ASTM D2240
Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature	176	°F	ASTM D1525
Heat Stability - Oven (374°F)	> 30.0	min	ASTM D2115-92

Additional Information

Typical temperature profile for processing compound is from 145°C to 180°C. The optimum temperatures depend on the type of machine as well as screw design being used to process.

Feeding zone: 145°C

Barrel zone: 150°C~170°C

Nozzle zone: 170°C~185°C

Mould temperature: 0°C~50°C

Notes

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

² 0.20 in/min