



Vital-Line SHM4001G

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

General Information

Product Description

Vital-Line SHM 4001G is a Polyvinyl Chloride Medical Molding Compound available in pellet form.

General

Material Status	• Commercial: Active
Availability	• Asia Pacific
Features	• Non-DEHP Plasticizer • Radiation (Gamma) Resistant
Uses	• Medical Devices
Forms	• Granules
Processing Method	• Injection Molding

ASTM & ISO Properties ¹

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	1.27		ASTM D792
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ² (Yield)	2030	psi	ASTM D638
Tensile Elongation (Break)	250	%	ASTM D638
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore A)	82		ASTM D2240
Thermal	Nominal Value	Unit	Test Method
Heat Stability - Oven (374°F)	> 30.0	min	ASTM D2115-92

Additional Information

Typical temperature profile for processing compound is from 140°C to 180°C. The optimum temperatures depend on the type of machine as well as screw design being used to process.

Feeding zone 140°C

Compression zone 145°C ~ 175°C

Nozzle / Die zone 155°C ~ 180°C

Mold temperature 0°C ~ 50°C

Notes

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

² 20 in/min