



Vital-Line SHM4505

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

General Information

Product Description

Vital-Line SHM 4505 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	1.23		ASTM D792
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ² (Break)	2470	psi	ASTM D638
Tensile Elongation (Break)	300	%	ASTM D638
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore A)	81		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 135°C to 175°C. The optimum temperatures depend on the type of machine as well as screw design being used to process.

Feeding zone: 135°C

Mixing zone: 140 °C to 160°C

Nozzle/Die zone: 16°C o 175°C

Mould Temperature: 0 °C to 50°C

Notes

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

² 20 in/min