



Vital-Line SHM0407G1

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

General Information

Product Description

Vital-Line SHM 0407G1 is a clear Polyvinyl Chloride Medical Molding Compound available in pellet form.

General

Material Status	• Commercial: Active
Availability	• Asia Pacific
Features	• Radiation (Gamma) Resistant
Uses	• Medical/Healthcare Applications
Forms	• Pellets
Processing Method	• Extrusion Blow Molding • Injection Molding

ASTM & ISO Properties ¹

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	1.36		ASTM D792
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ²	4260	psi	ASTM D638
Tensile Elongation (Break)	50	%	ASTM D638
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D)	80		ASTM D2240
Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature	176	°F	ASTM D1525 ³
Heat Stability - Oven (374°F)	> 30.0	min	ASTM D2115-92

Additional Information

Typical temperature profile for processing compound is from 155°C to 190°C. The optimum temperatures depend on the type of machine as well as screw design being used to process.

Feeding zone 155°C

Compression zone 160°C ~ 175°C

Nozzle / Die zone 165°C ~ 190°C

Mold temperature 0°C ~ 50°C

Notes

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

² 0.20 in/min

³ Loading 1 (10 N)