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TEKNOR APEX

Vital-Line SHM0307G3

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

General Information

Product Description

Vital-Line SHM 0307G3 is a Polyvinyl Chloride Medical Molding Compound available in pellet form.

General

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

ASTM & ISO Properties [1]

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	1.34		ASTM D792
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Strength [2]	7250	psi	ASTM D638
Tensile Elongation (Break)	180	%	ASTM D638
Impact	**Nominal Value**	**Unit**	**Test Method**
Notched Izod Impact	2.1	ft·lb/in	ASTM D256
Hardness	**Nominal Value**	**Unit**	**Test Method**
Durometer Hardness (Shore D)	77		ASTM D2240
Thermal	**Nominal Value**	**Unit**	**Test Method**
Vicat Softening Temperature			
--	174	°F	ASTM D1525 [3]
--	158	°F	ASTM D1525 [4]
Heat Stability - Oven (374°F)	> 30.0		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)

[4] Loading 2 (50 N)