



Vital-Line SHE5281

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

General Information

Product Description

Vital-Line SHE 5281 is a Polyvinyl Chloride Medical Extrusion Compound available in pellet form.

General

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

ASTM & ISO Properties ¹

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	1.21		ASTM D792
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			ASTM D638
100% Secant ²	1600	psi	
300% Secant	2900	psi	
Tensile Strength ²	3190	psi	ASTM D638
Tensile Elongation (Break)	350	%	ASTM D638
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore A)	78		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 185°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 ~ 165°C

Mixing zone 150°C ~ 185°C

Nozzle / Die zone 165°C ~ 180°C

Notes

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

² 20 in/min