

## - Flexible Polyvinyl Chloride

Friday, June 30, 2017

### General Information

#### General

Material Status	• Commercial: Active
Availability	• Asia Pacific
Features	• Ethylene Oxide Sterilizable • Non-Phthalate Plasticizer
Uses	• Medical/Healthcare Applications • Non-specific Food Applications
Forms	• Pellets
Processing Method	• Injection Molding

### ASTM & ISO Properties <sup>1</sup>

Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.19		ASTM D792
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength <sup>2</sup> (Yield)	> 853	psi	ASTM D638
Tensile Elongation (Break)	> 250	%	ASTM D638
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore A)	57 to 63		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 125°C to 170°C. The optimum temperatures depend on the type of machine as well as screw design being used to process.

Feeding zone: 125°C

Mixing zone: 130°C~150°C

Nozzle/Die zone: 150°C~170°C

Mould temperature: 0°C~50°C

#### Notes

<sup>1</sup> Typical properties: these are not to be construed as specifications.

<sup>2</sup> 20 in/min

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