

- Flexible Polyvinyl Chloride

Friday, June 30, 2017

General Information

General

Material Status	• Commercial: Active
Availability	• Asia Pacific
Features	• Good Flexibility • Non-Phthalate Plasticizer • Radiation Sterilizable
Uses	• Medical/Healthcare Applications
Forms	• Pellets
Processing Method	• Extrusion

ASTM & ISO Properties ¹

Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.16 to 1.20		ASTM D792
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ² (Yield)	> 1710	psi	ASTM D638
Tensile Elongation (Break)	> 200	%	ASTM D638
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore A)	60 to 66		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 135°C to 180°C. The optimum temperatures depend on the type of machine as well as screw design being used to process.

- Feeding zone: 135°C
- Compression zone: 145°C~155°C
- Mixing zone: 155°C~175°C
- Nozzle/Die Zone: 160°C~180°C

Notes

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

² 20 in/min

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