

**- Flexible Polyvinyl Chloride**

Friday, June 30, 2017

**General Information**

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Material Status	• Commercial: Active
Availability	• Asia Pacific
Features	• Good Flexibility
Uses	• Medical/Healthcare Applications
Forms	• Granules
Processing Method	• Extrusion

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

Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.15 to 1.19		ASTM D792
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength <sup>2</sup> (Yield)	> 1710	psi	ASTM D638
Tensile Elongation (Break)	> 250	%	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 170°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: 160°C~170°C
- Nozzle/Die Zone: 155°C~165°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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