

## - Rigid Polyvinyl Chloride

Thursday, June 29, 2017

### General Information

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Material Status	• Commercial: Active
Availability	• Asia Pacific
Features	• High Impact Resistance
Uses	• Electrical Parts                      • Fittings
Forms	• Pellets
Processing Method	• Injection Molding

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

Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.38 to 1.42		ASTM D792
Congo Red (374°F)	30.0	min	BS 2782
Melt Flow - (190°C/21.6kgs)	35g/10mins		ASTM D1238
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield)	7250	psi	ASTM D638
Tensile Elongation (Break)	30	%	ASTM D638
Flexural Modulus	392000	psi	ASTM D790
Flexural Strength	10600	psi	ASTM D790
Modulus of Elasticity - in Tension	363	ksi	ASTM D638
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	1.3	ft-lb/in	ASTM D256
Hardness	Nominal Value	Unit	Test Method
Shore Hardness (Shore D)	76		ASTM D2240
Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature	180	°F	ASTM D1525

#### Additional Information

Typical temperature profile for SINVICOMP compound is from 160°C to 180°C. The optimum temperatures depend on the type of machine as well as screw design being used to process SINVICOMP.

Feeding zone: 160°C  
 Mixing zone: 160°C~170°C  
 Metering zone: 170°C~180°C  
 Nozzle/Die Zone: 180°C

#### Notes

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

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