

- Rigid Polyvinyl Chloride

Thursday, June 29, 2017

General Information

General

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

ASTM & ISO Properties ¹

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	28g/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	187	°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

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

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