



Sinvicomp SI24809S1

Teknor Apex Asia Pacific PTE. LTD. - Flexible Polyvinyl Chloride

General Information

General

Material Status	• Commercial: Active
Availability	• Asia Pacific
Uses	• Insulation
Wire Types (IEC 60502)	• A
Forms	• Pellets
Processing Method	• Extrusion

ASTM & ISO Properties ¹

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	1.49		ASTM D792
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength	2320	psi	IEC 811-1-1
Tensile Elongation (Break)	250	%	IEC 811-1-1
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore A)	90		ASTM D2240
Thermal	Nominal Value	Unit	Test Method
Brittleness Temperature ²	5.00	°F	ASTM D746
Thermal Stability - Congo Red (374°F)	> 1	hr	BS 2782
Aging	Nominal Value	Unit	Test Method
Mechanical Properties After Aging in Air Oven, 168 hr ³			IEC 60811
Change in Tensile Elongation	20	%	
Change in Tensile Strength	10	%	
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity (73°F)	1.0E+14	ohms·cm	BS 2782 230A
Additional Information	Nominal Value	Unit	Test Method
Loss of Mass - Oven Ageing Condition @ 100 ± 2°C for 7 days ⁴	2.00	mg/cm ²	IEC 811-3-2

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

Compression zone: 160°C~170°C

Mixing zone: 170°C~180°C

Nozzle/Die Zone: 180°C

Notes

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

² Procedure A

³ @ 100 ± 2°C

⁴ Method: IEC60811-3-2