

Sinvicomp SI24809

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

Thursday, August 29, 2019

General Information

General

Material Status	• Commercial: Active
Availability	• Asia Pacific
Uses	• Appliance Wire Insulation
RoHS Compliance	• RoHS Compliant
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	2470	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
Hot Deformation - @ 120°C for 1 hr	15	%	BS 6746
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 ²			IEC 60811
Change in Tensile Elongation	20	%	
Change in Tensile Strength	10	%	
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity (73°F)	1.5E+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 ³	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 @ 100 ± 2°C

³ Method: IEC60811-3-2

Revision Date: 3/4/2019

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