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Sinvicomp SIZ5109O

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

Thursday, August 29, 2019

General Information

Product Description

"Sinvicomp" SIZ 5109O is a wire & cable polyvinylchloride compound available in pellet form. SIZ 5109O provides good performance for insulation of electrical wires.

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

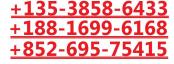
ASTM & ISO Properties ¹				
Physical	Nominal Value	Unit	Test Method	
Density / Specific Gravity ²	1.40		ASTM D792	
Mechanical	Nominal Value	Unit	Test Method	
Tensile Strength	2610	psi	IEC 811-1-1	
Tensile Elongation (Break)	250	%	IEC 811-1-1	
Hardness	Nominal Value	Unit	Test Method	
Durometer Hardness			ASTM D2240	
Shore A, 10 sec	88			
Shore D, 10 sec	34			
Thermal	Nominal Value	Unit	Test Method	
Brittleness Temperature	-4.00	°F	ASTM D746	
Heat Stability - Congo Red (374°F)	> 1.0	hr	BS 2782	
Hot Deformation - 120°C, 1hr (248°F)	15	%	BS 6746	
Aging	Nominal Value	Unit	Test Method	
Change in Tensile Strength ³			IEC 60811-2-1	
158°F, 4 hr, in IRM 902 Oil	8.0	%		
Change in Ultimate Elongation ³			IEC 60811-2-1	
158°F, 4 hr, in IRM 902 Oil	14	%		
Mechanical Properties After Aging in Air Oven, 212°F, 168 hr ⁴			IEC 60811-1-1	
Change in Tensile Elongation	12	%		
Change in Tensile Strength	8	%		
Electrical	Nominal Value	Unit	Test Method	
Volume Resistivity (73°F)	1.0E+14	ohms∙cm	BS 2782	
Flammability	Nominal Value	Unit	Test Method	
Oxygen Index	26	%	ASTM D2863	

Additional Information

Typical temperature profile for processing SINVICOMP compound is from 160°C to 175°C. The optimum temperatures depend on the type of machine as well as screw design being used to process SINVICOMP.

Feeding zone: 150°C~160°C Compression zone: 160°C~170°C Mixing zone: 170°C~175°C Nozzle/Die Zone: 175°C

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Notes

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

² @23°C

³ 70±2°C

⁴ 100±2°C

Revision Date: 10/9/2014

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