



TECHNICAL DATA SHEET

Product Name

SCG PVC

Product Type

Wire & Cable

Product Grade

C3903XXX

Product Description

C3903XXX is PVC compound product with any color for using in wire and cable application product. The formulation is designed for Insulation 90 °C rated cable which give good process ability by extrusion.

Typical Application

90 °C Rated for Insulation cable

Product Characteristics

- Good Process Ability
- Good surface of product

International Compliance

(PVC/A, PVC/C,PVC/D) :
(ST1,ST2,ST4,ST5,ST8)

Physical Properties

Property	Test Method	Typical Value	Unit	
Specific Gravity	ASTM D792	1.35 – 1.38	-	
Heat Stability @180°C	TPC Method	330 – 510	min	
Hardness Shore A @10 sec	ASTM D2240	86 - 90	-	
Volume Resistivity	JIS K6723	96 - 206 x10 ¹³	Ohm.cm	
Tensile Strength	JIS K6723	256 - 250	Kgf/cm ²	
Elongation at Break	JIS K6723	331 - 354	%	
Aging @100°C x 120 hrs.				
Retention of Tensile Strength	JIS K6723	95 - 100	%	
Retention of Elongation at Break	JIS K6723	92 - 98	%	
Weight Loss	JIS K6723	0 – 0.7	%	
Oil Aging @70°C x 4 hrs.				
Retention of Tensile Strength	JIS K6723	88 - 97	%	
Retention of Elongation	JIS K6723	81 - 91	%	
Fish Eye (300 sq.cm)	TPC Method	Max. 10	0	Point
Moisture Content	TPC Method	Max. 1	0.3 – 0.5	%
Melt Flow Index (175 °C)	ASTM D 1238	10 – 13	15	g / 100min
Heat Deformation @120oC x 1 hr.	JIS K6723		7 - 9	%
Brittleness Temp at -15 °C	JIS K6723		No Crack	-

Note: the given values are typical value measured on the product. Values herein are not to be constructed as a product specification.



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Processing Guidelines

The actual processing condition depends on each extruder machine type, screw type and also output needed etc. Generally, temperature at extruder should be around 150-180°C as sequence from feed throat to die head. The exceed temperature than 190°C might effect to appearance, color and typical property.

Product Technical Assistance

For technical assistance or further information on this product or any other SCG Chemicals' products contact your SCG Chemicals technical service at the address or telephone number as specified below.

Product Available Form

- Pellet

Product Packaging

- 25 kg Loose bag
- 25 kg bag Stretch wrap palletized
- 500, 700, 900, and 1,000 kg Flexy bag

Storage

- Store in original container in tidy according to the manual of Handling and Storage from Thai Polyethylene Company Limited/ Thai Polypropylene Company Limited.
- Product(s) should be stored in dry and dust free location at temperature below 50°C and protected from direct sunlight and/or heat, well-ventilated area, away from incompatible materials and food and drink, as this may lead to quality deterioration, which results in odour generation and colour changes and can have negative effects on the physical properties of this product.
- Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination.
- The storage area should be stable and not be slopped.

Safety

- The product is not classified as a hazardous material.
- Please see our Material Safety Data Sheet for details on various aspects of safety, recovery, and disposal of the products; for more information, contact your SCG Plastics/SCG Performance Chemicals technical service.



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Recycling

- The product is suitable for recycling using modern methods of shredding and cleaning. In-house production waste should be kept clean to facilitate direct recycling.
- Please see our Material Safety Datasheet for details on various aspects of safety, recovery and disposal of the products; for more information, contact your SCG Plastics/SCG Performance Chemicals technical service.

Related Documents

- The latest version of this document will be available at our website, www.scgchemicals.com, or can be obtained from the SCG Plastics/SCG Performance Chemicals technical service.
- The following related documents are available on request, and represent various aspects on the usability, safety, recovery and disposal of the product.
 - Material Safety Datasheet
 - Statement on compliance to food contact regulations

Disclaimer

- The Applications specified herein is for reference only.
- It is customer's responsibilities to inspect and test the product for suitability of the customer's own use and purpose. The customer is responsible for appropriate, safe, legal use, processing and handling of the product.
- To the best of our knowledge, the information contained herein is accurate and reliable as of the date of publication. We however do not assume any liability whatsoever for the accuracy and completeness of the information contained herein.
- We make no warranties which extend beyond the description herein. Nothing herein shall constitute any implied warranty of merchantability or fitness for a particular purpose.
- No liability can be accepted in respect of the use of the product in conjunction with other materials. The information contained herein relates exclusively to the product when it is not used in conjunction with any third party's materials.