



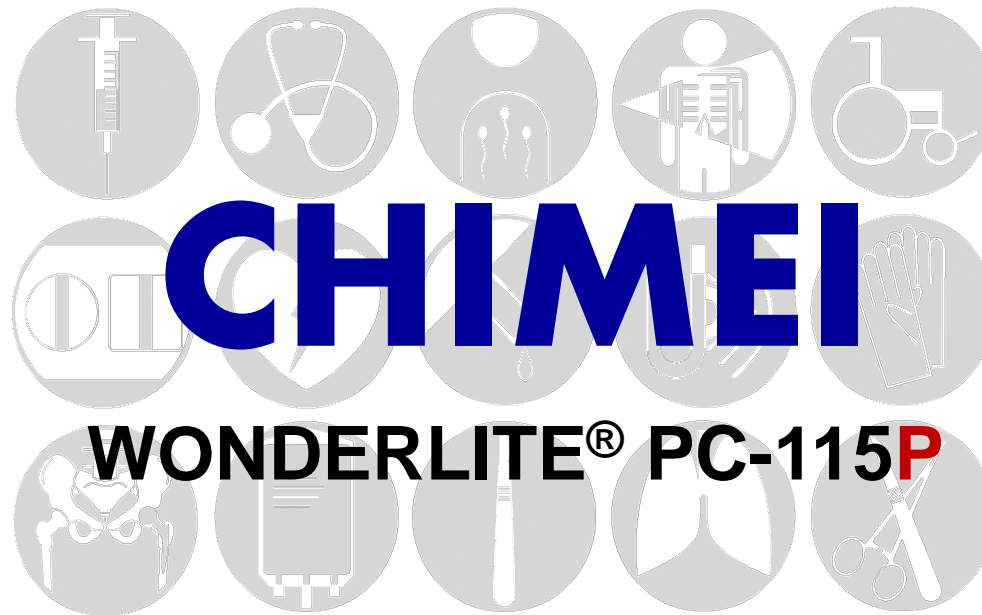
CHIMEI

WONDERLITE® PC-115P

Introduction

bonding your moments

What is PC-115P



“P” stands for
pharmacological package

Biocompatibility

PC-115P meets the biocompatibility requirements of ISO 10993.

Test Items


In Vitro Cytotoxicity Test-MTT Assay
(ISO10993-5)

Acute Systemic Toxicity Study (ISO 10993-11)

Hemolysis Test (ISO 10993-4)

Skin Sensitization Study (ISO 10993-10)

White Rabbit Intracutaneous Irritation Test
(ISO 10993-10)


<p>WONDERLITE® PC-115P</p> <p><Lot No.: 6C25S051></p> <p><i>In Vitro</i> Cytotoxicity Test</p> <p>-MTT Assay</p>
<p>FINAL REPORT</p>
<p>Sponsor: CHIMEI Corporation Testing Institution: SGS Taiwan Ltd. Ultra Trace & Industrial Safety Hygiene Report No.: UR/2016/B0383</p>
<p><small>Notes:</small></p> <ol style="list-style-type: none"> 1. The content of this report is valid if it is not proven to be incorrect. 2. Any unauthorized deletion, forgery or falsification of the content or appearance of this report is unlawful and will be prosecuted according to the law. 3. There is no liability for the accuracy of the data provided by the client. 4. The analysis of reports in the case shall be subject to the company's internal request by the manager. Reporting to the regulatory of the product, shall be determined by the customer according to the law.
<p><small>SGS Taiwan Ltd. 11062-3, Jhuang-an Rd., Sec. 2, Taipei, Taiwan 02-2707-8888 www.sgs.com.tw Report No. UR/2016/B0383 Page 1 of 11</small></p>

Prosperity of PC-115P

Properties	ISO Test Method	Test Condition	Unit	PC-115P
Melt Flow Index	1133	300°C × 1.2KG	ml/10 min	15
Mass Density	1183	23 °C	g/cm ³	1.2
Tensile Strength	527	50 mm/min, yield	MPa	64
		50 mm/min, break	MPa	70
Tensile Elongation	527	50 mm/min	%	120
Flexural Strength	178	2 mm/min	MPa	90
Flexural Modulus		2 mm/min	GPa	2.4
Izod Impact Strength	180/4A	23 °C Notched	KJ/m ²	70
		-30 °C Notched	KJ/m ²	-
Charpy Impact Strength	179	23 °C Notched	KJ/m ²	70
		-30 °C Notched	KJ/m ²	-
Vicat Softening Temp.	306	1 Kg,50 °C/hr	°C	150
		5 Kg,50 °C/hr	°C	145
Heat Distortion Temp.	75/A	1.8 MPa Unannealed	°C	128
		1.8 MPa Annealed	°C	143
Coefficient of Linear Thermal Expansion	11359	-	-	6.0~8.0x10-5

Sterilization Methods

- ✓ PC-115P is suitable for both ethylene oxide (EtO) gas and gamma radiation sterilization.

Sterilization Method	PC-115P (Natural)	PC-115P (Bluish)
Ethylene Oxide (EtO)	Yes	Yes
Gamma Radiation	(Yes)*	Yes

*After exposed to gamma sterilization at 25 kGy, PC-115P (natural) keeps good retention of physical properties but becomes yellowish.

Applications

Dialyzer



Luer connector



Cannula for Laparoscopic surgery



Humidifier tanks



Oxygenator

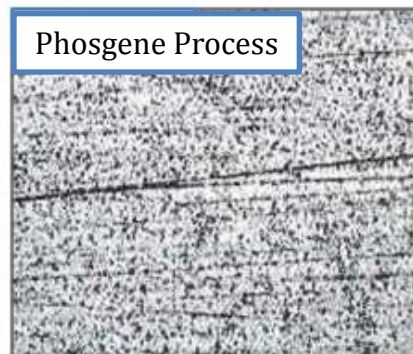


Why CHIMEI?

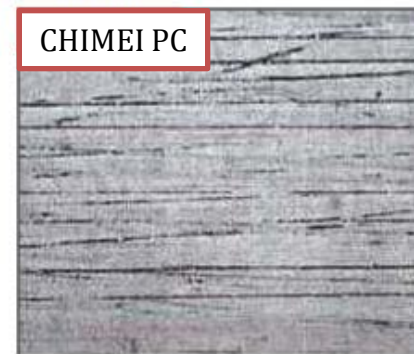
- **CHIMEI-Asahi Phosgene-Free Process (Green and clean process)**
 - Chloride-free
 - Low mold contamination due to low oligomers
 - Better flowability; lower residual stress

Mold Corrosion Simulation Test

PC from different process routes were placed on metal plates, heated up to 300°C for 24 hours.



The plated was badly corroded.



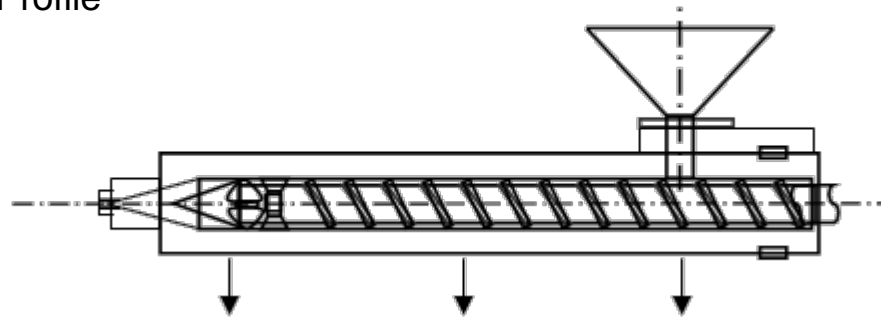
No corrosion on the plated.

The above experiment is only for reference.

Processing Conditions

- A. Pre-drying 120°C x 4 hrs
depending on
- Humidity
 - Storage conditions
 - Dryer's performance

B. Barrel Setting Profile



Grade / Application		Nozzle	Compression zone	Feeding zone	Mold Temperature *
PC-115P	max.(°C)	300	310	300	70 -120
	min.(°C)	250	250	230	

* varying with a) Thickness of molded articles; b) Cooling system design; c) Gate and runner system

NOTE :

- Keep the resin from dust and contamination during handling and production.
- Do not retain the hot melt at the barrel for a long time between injection cycles.
- Temperature setting of manifold system should not exceed 330°C to avoid melt from degrading.
- Heat decomposing resins are not recommended for purging the residual WONDERLITE® in barrel of injection machine and extruder.

The background of the slide is a light blue gradient. Scattered throughout the scene are several dandelion seeds, each with a long, thin stem and a cluster of fine, white, feathery filaments. The seeds are in various stages of being blown away, creating a sense of movement and lightness.

**Thanks for
Your Attention**

bonding your moments
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