

POHS 標準跟 REACH

R-1/2

標準差不多，但比 ROHS 及  
標準較高

## 关于最新标准 PoHS 的简介

PoHS 英文全称为 Prohibition on Certain Hazardous Substances in Consumer Products, 中文译为《消费性产品中禁用特定有害物质》。2007 年 6 月 8 日, 挪威通报 WTO, 提出“消费性产品中禁用某些危险化学品”的要求, 将限制消费品中的 18 种物质(和我司产品相关的有 16 种), 即 PoHS 法规。受限制的 18 种物质为: 六溴环十二烷、四溴双酚 A、氯化石蜡、铅和铅化合物、镉及化合物、砷及化合物、有机锡化合物、三苯基锡化合物、二甲苯麝香、麝香酮、全氟辛酸及盐类和酯类、表面活性剂 DTDMAC、DODMAC、DHTDMAC、双酚 A、DOP(DEHP)、五氯苯酚和三氯生。这些被限用的物质具有持久性、生物累积性、致癌性、毒性的特点。POHS 法规与当前正在实施的 REACH 法规的 16 种高度关注物质 (SVHC) 有很多相似的地方, 同时又比 REACH 法规要求严格。

PoHS 名字与欧盟 RoHS 指令貌似相近, 但两者有很大的不同。

1、限制有害物质的产品范围不同。挪威 PoHS 法规覆盖的产品范围比 RoHS 更大。由于它是一个关于消费品的法规, 因此 PoHS 涵盖了除食品、食品包装、肥料、医疗设备、烟草、运输工具及附属设备外的所有消费品。它包括的产品类别除电子电气类消费品外, 还包括衣服、箱包、建筑、玩具等。而 RoHS 只包括电气电子设备和元器件电气部件。

2、限制的物质种类不同。PoHS 法规限制物质的种类有 18 种之多,

# RoHS 標準介紹

而歐盟的 RoHS 指令限制的物質種類為 6 種，分別是鉛、汞、鎘、六價鉻、多溴聯苯和多溴二苯醚。

3、限制的物質濃度不同。PoHS 法規比歐盟 RoHS 指令對有害物質的限制更為嚴格。如鉛的限量要求，歐盟 RoHS 指令要求的鉛限值濃度為 0.1% (1000ppm)，而 PoHS 法規要求鉛限值濃度為 0.01% (100ppm)。

從以上內容可以看出，PoHS 的要求比 RoHS 更加嚴格，歐盟、美國可能隨後採用此標準。這不單是一種貿易技術壁壘，同時有利於人類環境的不斷改善和人類文明的不斷發展。

經過我司技術研發人員的不斷實驗、同時得到許多國際知名品牌公司的配合（例如埃克森、BASF、台塑、旭電化），經過香港第三方公正行的檢測，我司產品已完全符合 POHS 的要求（附檢測報告）。

2008/08/29

\* 請注意：

如要 POHS 標準的話，必須

另外訂貨

PoHS



## STC Test Report

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Date : 2008-08-26

No. :

Applicant (Code: SHQ004) :

Description of Sample(s) : One submitted sample said to be PVC Transparent Film 080719702 B1GR/38L3 T030.

Date Sample(s) Received : 2008-08-04

Date Tested : 2008-08-05 to 2008-08-26

Investigation Requested :

1. Hexabromocyclododecane (HBCDD)
2. Tetrabromobisphenol A (TBBPA)
3. Medium-chained chlorinated paraffins C14-C17 (MCCP)
4. Arsenic and arsenic compounds
5. Lead and lead compounds
6. Cadmium and cadmium compounds
7. Tributyltin compounds (TBT)
8. Triphenyltin compounds (TPT)
9. Diethylhexylphthalate (DEHP)
10. Pentachlorophenol
11. DTDMAC
12. DODMAC / DSDMAC
13. DHTDMAC
14. Bisphenol A (BPA)
15. Perfluorooctyl acid (PFOA)
16. Triclosan

Conclusion(s) : The test results of the submitted sample were complied with the specification of Norwegian Product Regulation (PoHS).

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Chemical and Food Department  
For and on behalf of

The Hong Kong Standards and Testing Centre Ltd.



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## STC Test Report

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Date : 2008-08-26

No. :

### Method(s) Used:

1. Liquid Chromatography / Mass Spectrometry
2. High Performance Liquid Chromatography – Diode Array Detector
3. Gas Chromatography - ECD
- 4-6 : Inductively Coupled Plasma – Atomic Emission Spectrophotometry
- 7-8 : Gas Chromatography/ Mass Spectrometry
9. Gas Chromatography / Mass Spectrometry
10. High Performance Liquid Chromatography – Diode Array Detector
- 11-13. Liquid Chromatography / Mass Spectrometry
14. Gas Chromatography / Mass Spectrometry
15. Liquid Chromatography / Mass Spectrometry
16. Liquid Chromatography / Mass Spectrometry

### Test Result(s):

Test item(s)	PVC Transparent Film 080719702 B1GR/38L3 T030	Specification
1. Hexabromocyclododecane (HBCDD)	<0.001%	<0.1%
2. Tetrabromobisphenol A (TBBPA)	<0.005%	<1%
3. Medium-chained chlorinated paraffins C14-C17 (MCCP)	<0.01%	<0.1%
4. Arsenic and arsenic compounds	<0.002%	<0.01%
5. Lead and lead compounds	<0.002%	<0.01%
6. Cadmium and cadmium compounds	<0.002%	<0.01%
7. Tributyltin compounds (TBT)	<0.005 mg/kg	<0.001% in articles
8. Triphenyltin compounds (TPT)	<0.005 mg/kg	<0.001% in articles
9. Diethylhexylphthalate (DEHP)	0.006%	<0.1%
10. Pentachlorophenol	<0.001%	<0.1%

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## STC Test Report

Date : 2008-08-26

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No. :

Test item(s)	PVC Transparent Film 080719702 B1GR/38L3 T030	Specification
11. DTDMAC	<0.005%	<0.1% (in total)
12. DODMAC / DSDMAC	<0.005%	
13. DHTDMAC	<0.005%	
14. Bisphenol A (BPA)	<0.001%	<0.005%
15. Perfluorooctyl acid (PFOA)	<1 $\mu\text{g}/\text{m}^2$	<1 $\mu\text{g}/\text{m}^2$
16. Triclosan	<0.001%	<0.001%

Note : < denotes less than  
mg/kg denotes milligram per kilogram  
 $\mu\text{g}/\text{m}^2$  denotes microgram per square meter

\*\*\*\*\* End of Test Report \*\*\*\*\*

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