

News Release – English

IonPhasE - Provides Dissipative IPE[®] Polymer Solutions for Electronics and Chemical Industries

Get ready for the next generation of dissipative polymers and meet us in Chinaplas09/ Booth No.: 10.2F01 !

IonPhasE Oy, a Finnish company, is innovative solution provider for dissipative polymers. IonPhasE develops and manufactures high performing dissipative polymers to help customers to control static electricity in plastic products. IonPhasE[®] IPE[®] polymers are utilized in wide range of industries such as chemical, electronics, automotive and others. IonPhasE has operations in Finland, Hong Kong and Guangzhou (P.R. China).

IonPhasE[®] IPE[®] technology is based on a polymer that is able to conduct ions. This polymer can be used to create plastics and plastic products with permanent, immediate and in low humidity functioning dissipative and low charging properties (“antistatic”). With IonPhasE[®] IPE[®] the desired functionality of the products is achieved with minimum effect to host material properties and process ability.

With IonPhasE[®] IPE[®] the desired functionality of the products is achieved with minimum effect to host material properties and process ability. Materials preserve their recyclability and are fulfilling many cleanliness demands in food contact and clean room environments.

IonPhasE[®] IPE[®] polymers can be converted with standard processing equipment, including extrusion, blown film extrusion, cast film extrusion, sheet extrusion, injection moulding, and blow moulding.

Typical characteristics of finished product made with IonPhasE[®] IPE[®] technology

Charge decay time < 1 s (1% standard), Surface resistance $5 \times 10^8 \Omega$

Applications

Dissipative and low charging properties are needed for demanding environments such as EPA in electronic industry and ATEX areas in food, drug and chemical industry where packaging causes an imminent danger of explosions due to charging of materials. The traditional means of achieving the functionality in these applications has proven inadequate. Most of the common fillers like carbon black do not meet the demands of today’s applications. Antistatic agents do not provide instant, permanent and low humidity functioning solution and these chemicals are usually not food contact or clean room compatible. Migrating chemicals may also damage electronic components when reacting with lacquered surfaces of IC-boards.

Furthermore, decorative plastics have increasing demand in consumer electronics, automotive and handheld devices, but in many cases these applications suffer from low yields in post-moulding decoration processes due to high static charges on the plastics surfaces which attract dust and other impurities. IonPhasE[®] IPE[®] polymers can also be used to tackle these challenges.

For more information, welcome to access our webpage: www.ionphase.fi

IonPhasE（艾昂飞） – 提供新型永久耗散性抗静电剂的高新技术供应商

新一代的抗静电聚合物已经诞生了，您准备好了吗？

诚意邀请阁下参观我司设于第二十三届中国国际塑料橡胶工业展（简称「2009国际橡塑展」）的展台，展台号码：**10.2F01!**

艾昂飞（IonPhasE®）公司是一家芬兰公司，在芬兰设有总部、销售、研发和生产基地，广州和香港也分别设有销售公司。IonPhasE是一家提供耗散性聚合物的高新技术供应商，研发及生产优质的抗静电材料，为客户控制塑料产品中的静电。IonPhasE的产品广泛应用于化工，汽车，电信和日用电子等各行业。

IPE®技术及产品是基于一种新型聚合物，采用离子导电技术，可用于制造塑料及相关塑料产品。此聚合物性能永久、见效快速，并且具有低起电性、耗散性和低湿度性，是抗静电性能极佳的新型高分子聚合物。使用IonPhasE的新型抗静电剂能够最大限度地发挥产品的性能，而不必担心抗静电剂会对产品造成影响。

IPE产品的极佳性能无需特别维护或处理工艺。其产品可回收再利用，满足美国食品药品监督管理局（FDA）的清洁标准，适合无尘作业环境使用。

IonPhasE® IPE®聚合物适用于各标准设备转换，包括挤塑，薄膜吹塑，流延膜挤出，板塑，注塑，吹塑等。

IonPhasE® IPE®聚合物产品性能特征：

净余静电荷衰减时间<1秒（标准1%），表面电阻 $5 \times 10^8 \Omega$

应用

在包装过程中，材料的电荷成为潜在的爆炸威胁，因此美国环保署在电子工业领域，及欧洲ATEX指令都在食品、药品及化学品领域都做出了耗散性和低起电性的要求。而传统的抗静电剂所产生的效果已证明不能满足现今的要求。大多数的抗静电剂，如碳黑等，既无法提供见效快，性能永久，低湿度性的解决方案；也无法满足FDA及无尘作业要求，而且这种抗静电剂若与油漆表面发生反应，还会损害精密的电子仪器，例如IC板等。

此外，装饰塑料在电子消耗品、汽车和手提设备方面都有大量的需求增加，但很多时候由于受到高静电的影响，令到塑料的表面吸附很多灰尘及其他杂质，而艾昂飞（IonPhasE®）公司的IPE®新型抗静电剂能够很好地解决这一问题，有效地提高装饰塑料在电子消耗品、汽车和手提设备方面的使用率。

更多IPE®技术及产品，欢迎登录我们的网站查询：www.ionphase.fi