NorShine
诺升功能材料

PTFE微粉
TP214G

产品描述

含氟助剂TP214G是具有流动性的白色PTFE微粉，它经过特殊工艺处理，全氟辛酸（PFOA）含量低于25ppb，符合欧盟REACH (EU) 2017/1000，(EC) No. 1907/2006标 准。TP214G作为助剂用于其他材料加工时具有很低的表面能，同时也有氟聚合物的其他性能。TP214G非常适合于添加在要求较窄粒径分布的油墨和涂料中。添加在塑料和橡胶（弹性体）中，可以改善润滑性和耐磨性在润滑剂中加入TP214G可以有效提高在严苛工作环境下的性能。TP214G可以在-190℃～ 250℃（-310 ℉ ~480 ℉）之间使用。

TP214G通常用做加工助剂，也可以作为润滑剂单独使用，但不能用来替代高分子量的PTFE悬浮或分散树脂进行挤出和模压加工。

TP214G几乎对所有的化学品和溶剂是惰性的，也不吸收水分，具有很好的电器绝缘性和耐候性。

主要应用

TP214G主要用于印刷油墨以改善耐摩擦性、表面滑爽性和光泽度，另外也可以降低阻塞。通常情况下，TP214G和聚乙烯蜡混合使用来获得预期的改进效果。TP214G的粒径小、分布窄，所以用于涂料体系中也可以有效地提高不粘性、降低摩擦、提高耐磨性以及改善耐腐蚀性和减少浸润。用做塑料和橡胶（弹性体）的加工助剂时，可以改善其润滑性和耐磨性。TP214G在塑料和橡胶（弹性体）中的添加份通常在5%~20%（重量比）左右。

包装

25公斤桶装。每27桶一个托盘，方便运输和仓储。

安全警示：吸入蒸发物会导致伤害！

使用本产品前请仔细阅读（材料安全数据表）（MSDS），该表可向供应商索取。

必须在通风良好的地方打开本品的包装和使用。吸入高温加工时产生的蒸发物或吸食被污染的烟草会出现流感症状（发冷、高烧、喉咙痛）。必须在充分通风的工作环境中进行高温加工，不要吸食被本产品污染的烟草。

本产品和极细的金属粉末（如镁、铝）混合后，在特定条件下可能燃烧和爆炸。

技术指标

项目	测试标准	单位	指标	典型值
堆积密度	ASTM D4894	g/L	225-600	350
熔点	ASTM D4894	℃	320±5	322
平均粒径	激光衍射法	μm	2-4	D_{50}=3；D_{99}<12
比表面积	ASTM D4567	m^2/g	0.8-4.5	1.5-3
NPIRI	ASTM D 1316	-	0-2.5	2
外观	诺升标准	-	白色	白色

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苏州诺昇功能高分子材料股份有限公司
Suzhou Norshine Performance Material Co., Ltd.

NorShine 诺升功能材料

PTFE Micropowder TP214G

Description

Fluoroadditive TP214G is a white free flowing PTFE powder specialized for use as an additive to impart low surface energy and other fluoropolymer attributes. After special process treatment, the content of PFOA is less than 25ppb, which conforms to the European Union REACH (EU) 2017/1000, (EC) No.1907/2006. TP214G is well suited for added in inks and coatings where a narrow particle size distribution is desired. It could improve lubricity and wear resistance. Added to lubricants, it can enhance performance under severe conditions. TP214G can be used at temperature from -190℃ to 250℃ (-310 ℉ to 480 ℉).

Applications

TP214G is used as an additive (at approximately 1~3% b weight) in printing inks to improve certain properties, such as rub resistance, slip, surface smoothness and gloss. It can also reduce the blocking. Typically, TP214G is used in combination with polyethylene waxes to get the property modification. Due to its small particle size and narrow particle size distribution, TP214Gcan be use in a variety of coating system to improve nonstick, antifriction, corrosion inhibition properties. It can also reduce the friction coefficient and increase the rub resistance.

Plastics and elastomers containing TP214G have shown improved lubricity and reduced friction and wear. Typical loadings of 5-20% by weight were used.

Packaging

TP214G is packaged in 25kg drum. 27drums are packaged on one pallet for easy shipping, handling and storage.

Safety Precautions

Before using TP214G, please read the Material Safety Data Sheet (MSDS—available from Norshine, the producer) carefully.

Open and use containers only in well-ventilated areas using local exhaust ventilation. Vapor and fumes liberated during hot processing, or from smoking tobacco or cigarettes contaminated with TP214G may cause flu-like symptoms (chill, fever, sore throat). Vapor and fumes liberated during hot processing should be exhausted completely from work area. Contamination of tobacco with TP214G should be avoided.

Mixtures with some finely divided metals, such as magnesium or aluminum, can be flammable or explosive under some conditions.

Specifications

Property	Test Method	Unit	Specification	Typical Value
Average Bulk Density	ASTM D 4894	g/L	225-600	350
Melting Point	ASTM D 4894	℃	320±5	322
Average Particle Size	Laser Diffraction	μm	2-4	D_{50}=3； D_{99}<12
Specific Surface Area	ASTM D 4567	m^2/g	0.8-4.5	1.5-3
NPIRI Grind	ASTM D 1316	-	0-2.5	2
Whiteness	Norshine standard	-	White	White

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