

产品描述

含氟助剂TP110G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。TP110G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。TP110G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；在润滑油和润滑脂中加入TP110G可以有效提高在严苛工作环境下的性能。TP110G可以在-190°C ~250°C (-310 °F ~480 °F)之间使用。

TP110G通常用作加工助剂，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。

TP110G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

TP110G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。TP110G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。用作塑料和橡胶（弹性体）的加工助剂时，可以改善其润滑性和耐磨性。

TP110G是专门设计符合US FDA 21 CFR 175.300标准的产品，可以添加于反复接触食品的器具及其部件的加工。TP110G同时符合NSF HX-1要求。

包装

15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TP110G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TP110G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TP110G污染的烟草。

技术指标



项目	测试标准	单位	指标	典型值
堆积密度	ASTM D4895	g/L	150-450	260
熔点	ASTM D4895	°C	325±5	328
平均粒径	激光衍射法	µm	1-7	D ₅₀ =3; D ₉₉ <15
比表面积	ASTM D4567	m ² /g	4-15	8-12
白度	诺升标准	-	白色	白色

Description

Fluoroadditive TP110G 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. TP110G is well suited for added in inks and coatings where a narrow particle size distribution is desired. With plastics and rubbers, it could improve lubricity and wear resistance. Added to lubricant and greases, it can enhance performance under severe conditions. TP110G can be used at temperature from -190°C ~250°C (-310 °F ~480 °F).

TP110G is generally designed to be used as an additive, although it can also be used alone as a dry lubricant. It is unsuitable to be used as a molding or extrusion resin to replace for any of the high molecular weight PTFE resin. TP110G is inert to all chemicals and solvents. It is a good electrical insulator, does not absorb water, and is highly resistant to weathering.

Applications

TP110G is used as an additive (at approximately 1-3% by weight) in printing inks to improve certain properties, such as rub resistance, slip, surface smoothness and gloss. It can also reduce the "blocking". Due to its small particle size and narrow particle size distribution, TP110G can be used in

a variety of coating systems to improve nonstick, antifriction, corrosion inhibition properties. It can also reduce the friction coefficient and increase the rub resistance. Plastics and elastomers containing TP110G have shown improved lubricity and reduced friction and wear.

TP110G may be used as a component of articles intended for repeated use in contact with food in compliance with US FDA 21 CFR 175.300. And TP110G meets the requirements of NSF HX-1

Packaging

TP110G is packaged in 15kg drum. 27 drums are packaged on one pallet for easy shipping, handling and storage.

Safety Precautions

Before using TP110G 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 TP110G, 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 TP110G should be avoided.

Specifications



Property	Test Method	Unit	Specification	Typical Value
Average Bulk Density	ASTM D4895	g/L	150-450	260
Melting Point	ASTM D4895	°C	325±5	328
Average Particle Size	Laser Diffraction	µm	1-7	D ₅₀ =3; D ₉₉ <15
Specific Surface Area	ASTM D4567	m ² /g	4-15	8-12
Whiteness	Norshine standard	-	White	White

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