Anti-Dripping Agent Pushing® DB109

Brief Introduction

Anti-dripping agent Pushing® DB109 is modified from PTFE which has the best fiber-forming property and polymerized by MMA (methylmethacrylate). It is mainly used in flame-retardant formulation of thermoplasticity engineering plastics in which flame-retardancy performance is UL94-V0, which can reinforce the drip resistance of flame-retardant materials or reduce the additive amount of flame retardant. It has little effect on the transparency of PC end-product.

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Product Features

1. More excellent flowability: easy to add
2. Not agglomerating under normal temperature storing and processing easily
3. Good dispersibility and smooth surface with fisheyes, knit lines & residual monomer
4. Excellent anti-dripping performance
5. Improving physical properties of material
6. Avoiding fusing and improving property and stability flame retardancy
7. Improving post-processing property (in print, adhesion, electroplating and etc.)
8. Environment friendlier and safer
9. Not hurting the in-house mechanism of colophony
10. Low cost due to low additive amount of flame retardant
11. Not easily causing broken bar and bridge phenomenon in the progress of extrusion and reducing the time of machine halt
12. Little influence on impact strength due to good compatibility
13. Little effect on the transparency of PC end-product.

Physical and Chemical Properties

Product Grade:	DB109	**Appearance:**	white powder
PTFE content(%):	50±2	**Average Particle Size:**	< 2mm

Product Attribute

Solid. Storage under normal temperature

Application

Pushing® DB109 can be applied in PC, ABS, PC/ABS, HIPS, Nylon, PPO, PBT, PP or their compounds.
UL94-V0 (1.6mm)

Reference

UL94 Standard	V0	V1	V2
Burning time of once	10s	20s	30s
Burning time of total	50s	250s	250s
Burning of cotton by dripping	not burning	not burning	not burning

Processing Guide

In the process of manufacturing the anti-dripping polycarbonate, add directly 0.3-0.5 PHR of DB109 into the blender.
Usually, to use twin-screw extrusion has the better performance than single-screw.

Suggested additive amount:

Case 1	
PC	0.5%
PC/ABS	0.3%
HIPS	0.2%
PBT	0.3%
ABS	0.1%

Case 2		
HIPS	PTFE	DB109
Additive amount(%)	0.003	0.003

Shelf Life

2 years

Packaging

Net 25kg/drum
Packed in export-oriented kraft drum with PE lining inside