

Gemini[®] PFPE Melt Compounding Polymer Additive

PCA Series

Introduction:

PCA series are additives for polymer melt compounding, it based on PFPE epoxy acrylate, so they are odorless, chemically inert and nonflammable. PCA also have color, UV and thermal stability.

PCA added to plastics and elastomers, can improve processing of polymers. PCA internally lubricate to improve flow properties, processibility, throughput, uniform mixing / dispersion, physical properties, tensile properties, gloss, surface lubricity and reduce squeak, noise, it provides many advantages over other process aids. PCA improve properties of both thermoplastic and thermoset polymers by increasing wear and flex fatigue resistance and making parts last longer. PCA eliminate marring and scratching of polymer surfaces such as SEBS and TPU etc. In actual polymer melt compounding process, PCA can improve mold release efficiency, extruding speed and reduce mold clogging.

Typical Properties:

PCA Grades	PCA-04	PCA-05	PCA-06
Appearance	White Powder	White Powder	White Powder
Melting Point ,°C	45	58	66
Extruding Point ,°C	100~120	100~120	100~120
Solidification Point ,°C	180~220	180~220	180~220

Compound Processing:

Polymers with PCA can be processed in conventional thermoplastic processing equipment, before processing, equipment must be thoroughly cleaned and purged. The recommended loading of PCA is 0.5%~5%, depending on base polymer matrix and final performance needs. By compounding with thermoplastic polymers, we suggest using twin-screw extruder with liquid injection capability. For thermosetting polymers, you can follow normal mixing procedures.

Recommended Applications:

PCA series have been widely used in industries like automotive, aviation, medical device, semiconductor, film etc.

Polymer gears, bushings

Auto weather stripping and interiors

Shoes soles, cleats

Polymer films

O ring, seals

Cable liners, tubular materials

Medical devices, electronic devices, food machines fittings

Processing aids

Compatible Materials:

HDPE, PMP, PP, POM

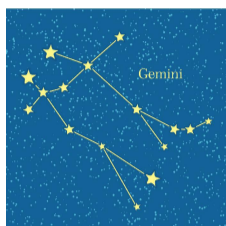
Nylon 6, Nylon 12, PIB, EPR, EPDM, NBR, HNBR

TPE, TPO, TPV, TPSiV, HIPS, SAN, ABS, SBS

Attentions:

- . During processing, wear protection clothes, be careful of eye、 skin contact.
- . Keep the container sealed and store in cool、 well ventilated locations, shelf life 2 years.

Packaging/Transport: 10Kg,25Kg,50Kg plastic jug. Not classified as dangerous in the meaning of transport regulations.



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