

ADD-VANCE NU 489

High-performance nucleation concentrate for PP

Product Data

Composition

Nucleation concentrate based on PP.

Typical Properties

The values indicated in this data sheet describe typical properties and do not constitute specification limits.

Bulk density:	500-650 kg/m ³
MFR (230 °C, 2.16 kg):	12 g/10 min
Active substance:	2%
Supplied as:	White to off-white granulate

Food Contact Legal Status

For the current food contact legal status, please contact our product safety department or visit www.byk.com for further information.

Storage and Transportation

Store in sealed containers in a cool, dry, and well-ventilated location.

Applications

Special Features and Benefits ADD-VANCE NU 489 contains a powerful nucleation agent with a very high level of dispersion, offering the optimum balance between increased production speed and improved physical properties. The nucleation agent increases crystallization during cooling, thereby accelerating cooling and at the same time encouraging a consistently crystalline structure. ADD-VANCE NU 489 facilitates high throughput by improving isotropy, which enables the production cycles in processing plants to be reduced. The more homogeneous crystallization prevents defects during molding and increases the dimensional stability, rigidity, and thermal stability, especially when compared with pigmented or other nucleated systems. By using ADD-VANCE NU 489, processed material cools up to 25% more quickly, which offers a cost-saving potential through increased machine capacity. It also helps achieve a lower extrusion temperature as a result of a more regular polymer flow. When using the product, no sink marks, cavities, or deformation occur after demolding in pigmented/talc-filled systems. There is no need to make color-specific machine adjustments.

Recommended Use

Automotive parts	X
Interior vehicle trims	X
Boxes X Housing	X
Packaging	X
Tanks	X
Bottles	X
Household products	X
Caps and closures	X

X especially recommended **Y** recommended

Recommended Levels

1-3% additive (as supplied) based upon the total formulation.

The above recommended levels can be used for orientation. Optimal levels are determined through a series of laboratory tests.

Incorporation and Processing Instructions

The additive can be processed in injection molding, thermoforming, and extrusion blow molding processes.

Special Note

Compared with non-nucleated PP types, the extrusion temperature can be reduced by 20-30 °C and the cooling time by up to 25%. The ideal process parameters should be determined through testing.

ADD-VANCE NU 489
Data Sheet
Issue 08/2017