

Addonyl® 8073

Plastic Additives / Cast Nylon

Description

Cast Nylon 6, a plastic of high molecular weight, is produced through an anionic polymerization of caprolactam. During the pressureless casting process the monomeric caprolactam melt is poured into the mold and directly polymerized by a specific chemical reaction and then forms a semi-finished product or molding.

Addonyl® 8073 is used in combination with the catalyst Addonyl® Kat NL and the activator Addonyl® 8120 during the production of Cast Nylon (PA-6 G). Along with other products from our Addonyl® series you will be able to combine various properties, enabling you to tailor materials specifically to your requirements.

You can find further information in our cast nylon brochure or at <http://www.rheinchemie-additives.com>.

Advantages

Addonyl® 8073 is a **solid** high-molecular-weight polyol.

Addonyl® 8073 is used in rotomolding to prevent the formation of voids and pinholes. Furthermore, it also improves the impact value and the machinability of the obtained cast nylon.

Additionally, Addonyl® 8073 has the following advantages:

1. Colorless, wax-like flakes
2. The product is easily soluble in molten caprolactam without residue

Use

The reactivity of the polymerizing melt is influenced by various factors. We therefore advise against a concentration of > 2% p.b.w., because otherwise problems with the polymerization may occur.

The product is easily soluble in molten caprolactam. The caprolactam melt containing the activator is susceptible to oxidation. Thus, we recommend working under inert gas.

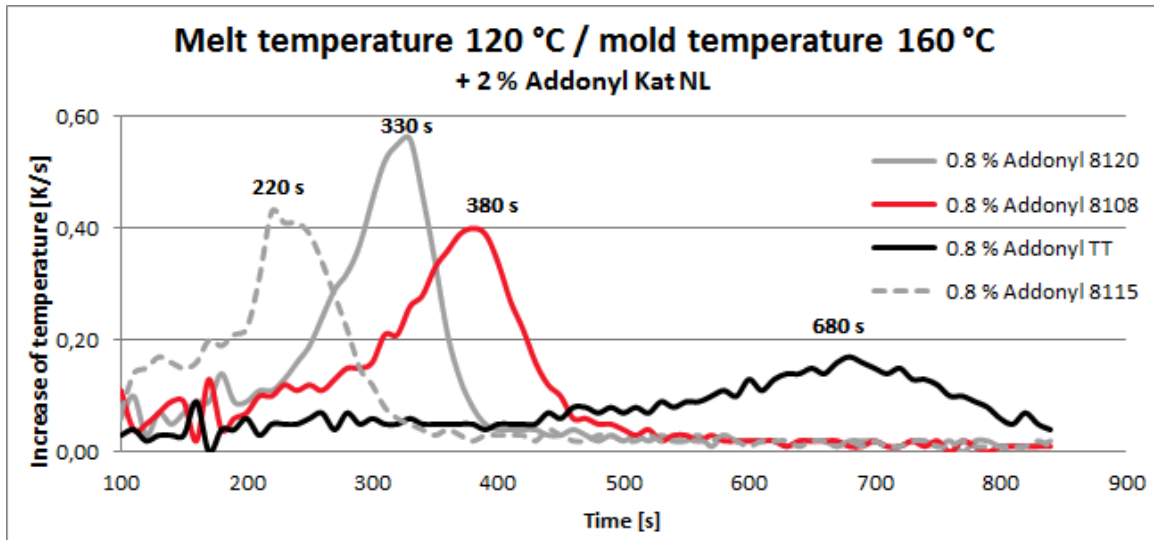
Our experts in the Technical Applications Department will gladly assist you in determining the optimal concentration.

Processing temperatures:

Melt:	110-130 °C
Mold:	130-160 °C
Recommended Dosage:	0.3 - 2.0 % by weight



The following diagram shows the reactivity of various Addonyl® activators, with the same weight dosing, subject to time:



Typical properties

Chemical composition:	Addonyl® 8073 is a high-molecular-weight polyol
Appearance:	Colourless, waxy flakes with weak inherent odour
Melting range:	approx. 60 °C
Water content:	< 0.5 %
Hydroxyl number:	< 7.0 mg KOH/g

The analytical data are general guide values.

Packaging

20 kg carton with polyethylene sack/500 kg per pallet

Storage stability

If handled correctly, the product has a shelf-life of at least 24 months.

Handling & safety

A receiving inspection is recommended. The product should be stored in a cool, dry place. Once opened, containers should be resealed tightly after removal of product.



Relevant safety data and references as well as possibly necessary warning labels are to be found in safety data sheet.

® = registered trade mark

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