



PVC ADDITIVES

INDOFIL K-300

Superior performance acrylic processing aid for PVC application

DESCRIPTION:

INDOFIL K-300 processing aid is a purely acrylic base polymer from INDOFIL that gives clarity as well as processing efficiency with high melt strength to the PVC resin.

Physical Description:

Chemical Description: Acrylic polymer-based compound.

Appearance: Free-flowing white powder.

Bulk Density: 0.40-0.50

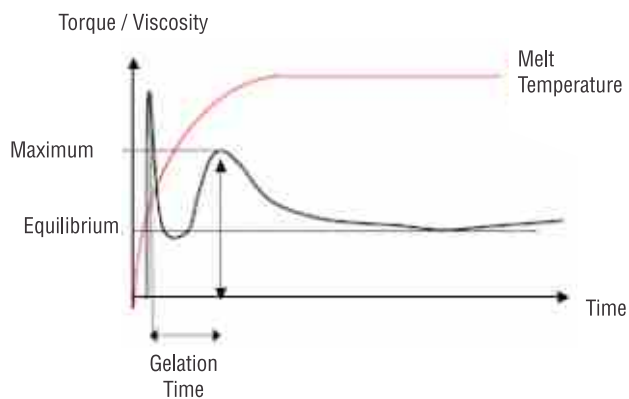
Clarity:

INDOFIL K 300 processing aid provides excellent clarity in Vinyl formulations.

Haze:

Haake Rheocord analysis: at HAAKE RHEOCORD 90

The maximum torque point is often taken to monitor PVC gelation time, although at this stage the compound is not completely fused yet. PVC is considered completely fused when the melt temperature reaches equilibrium. Maximum torque is simply an easy point to monitor formulation behavior comparatively.



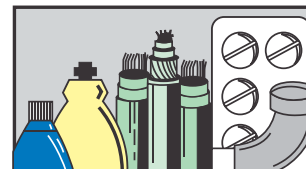
Formulation for Haake:

Ingredients:	Levels(PHR)
PVC (K=67)	100.
Glyceryl Monostearate	0.7
OP Wax	0.3
Tin Stabilizer	2.25
Processing Aid Indofil K 300	3.

Haake Running Condition:

Material Loading	60 gms
Extruder Speed	60 rpm
Temperature	160°C





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Processing Aid	Time (sec)	Torque (Nm)	Fusion Temperature (°C)	Torque (Nm)	Equilibrium Temperature (°C)
Indofil K 300	38	59.07	157	27-29	190

Processing Aid	Time(sec.)	Stability time (sec)	Torque (mg.)	Temperature (°C)
Indofil K 300	1289	1023	32.75	192

Onset of Degradation:

Dispersibility:

Indofil K-300, unlike Inodofil K 120ND easily disperses in PVC and enhances the dispersion of PVC particles, making it ideal for use in clear applications.

Benefits using Indofil K-300:

- The superior efficiency of Indofil K-300 processing aid enables the use of lower dosage levels of processing aid.
- Indofil K-300 can contribute to an improved processing window and enhanced impact through proper fusion control.
- Melt elasticity, melt strength and sizing can be improved through the use of Indofil K-300.
- The use of Indofil k-300 processing aid helps to control or eliminate flow marks and surging in extruded sheet products.
- Surface appearance of injection molded parts is greatly enhanced with the addition of Indofil K-300.

Typical Applications of Indofil K-300 :

Indofil K-300 is suitable for all PVC products like Extruded profile , calendered and Extruded Film and Sheet, Molded container, Injection molded part.

Safe Handling Recommendations

Indofil plastics additives should be kept away from flames, hot pipes, heaters or other sources of heat. Adequate precautions should be taken to keep all dust levels below values that are hazardous to health and safety. In case of eye or skin contact, eyes should be flushed with water to remove dust particles and affected skin areas to be washed with soap and water.

