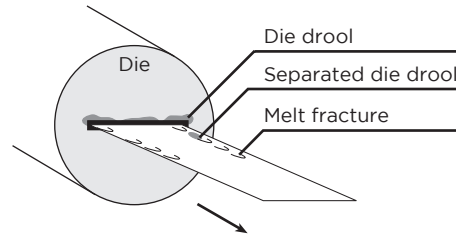


Anti Die Drool Masterbatch

Characteristics

- Our masterbatch is capable of reducing die drool due to the addition of colorants and/or fillers during molding process, removing die drool in a shorter time, and preventing troubles such as contamination and melt fracture on the surface of molded products.
- An active ingredient in our masterbatch forms a resin coating layer with buffer action at the molecular level during molding process.
- The above resin coating layer decreases the damage caused by die wall friction and has excellent smoothness. As a result, our masterbatch is capable of reducing die drool.

Generation of die drool and quality trouble



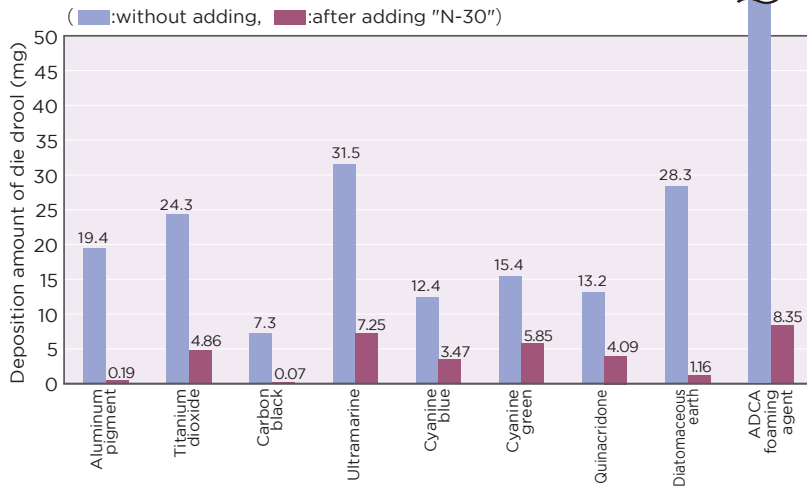
Representative Products

Product name	Application example	MFR of diluted resin	Addition amount when using
SSC LO-20	LDPE, HDPE film	0.01 ~ 10	1 ~ 3%
SSC L-20	LLDPE, HDPE film	0.01 ~ 10	
SSC N-30	Colored moldings and films	0.1 ~ 50	

Evaluation Results

Anti die drool effect

Type of pigment and additive, and the anti die drool effect.



[Evaluation method of die drool]

- Single screw extruder
Processing temperature 170°C
Discharge amount 37kg/h
Shear speed 166/s
Extrusion time 30 min
- Compound composition (without adding)
Pigment or filler 5 parts
LDPE resin 95 parts
- Compound composition (after adding "N-30")
Pigment or filler 5 parts
LDPE resin 95 parts
N-30 3 parts
- Collecting and weighing the die drool adhered to the die after extruding the above compound for 30 minutes

* Above is our internal experimental data. It is not guaranteed.

Example of anti die drool effect in foam inflation molding



Without adding "N-30"



After adding "N-30"

Application

Masterbatch effective in reducing die drool during plastic molding process

