



Antistats

HOSTASTAT® 154

TYPE OF PRODUCT/COMPOSITION

Hostastat® 154 is a solid, off-white laurylamide available in 420 lb. steel drums.

Composition:	Min. 90%	laurylamide (CAS 120-40-1)
	8%	other (sodium laurate, esters)
	2%	diethanolamine (CAS 111-42-2)

The chemical synonyms used for laurylamide are: fatty alkanolamide, lauric acid diethanolamide, lauramide DEA, N,N-bis (2 hydroxyethyl) dodecamide.

TYPICAL PROPERTIES

Melting Point	36° C
Density (40° C)	0.98 kg/l
Boiling Point	> 160° C

APPLICATION

Hostastat® 154 is an effective non-ionic antistatic agent for polyolefins. It reduces the surface resistivity and static decay times in extruded and molded parts from LDPE, LLDPE, HDPE and PP. Hostastat® 154 is mainly used for applications where short static decay times in low humidity conditions have to be met (e.g. PE film for electronics packaging).

USE LEVELS

Typical use levels range from 0.5% to 1.5% depending on the desired degree of antistatic properties.

FDA SANCTION

Hostastat® 154 meets FDA Title 21, § 178.3130 requirements for PE at use levels up to 0.5%.

OTHER INFORMATION

Antistats such as ethoxylated coco or tallow amines show a higher degree of corrosivity, lower compatibility with Polycarbonate, and are more volatile at high processing temperatures. To reduce fume formation and esterification, processing temperatures of 450° F should not be exceeded.

Due to the hygroscopic nature of antistatic agents, all Hostastat® grades should be stored in a dry area. Open bags need to be closed and polyolefin/antistat blends should be protected from moisture and processed as soon as possible.

STATIC DECAY PERFORMANCE

3 mil PE film, 1% Hostastat® 154:

Static decay time from 5000 V to 50 V, 12% relative humidity, 1 day through 3 months after production:

LLDPE:	0.5 - 1 sec.
LDPE:	0.3 - 0.6 sec.