

Data Sheet

Durastat® LD-120

Durastat® Anti-static Masterbatch for LDPE and LLDPE

Durastat® LD-120 is a static dissipative concentrate which can be letdown in LDPE at a concentration of 4-6% in cast or blown film processes to meet the electrical performance requirements of United States Military Specification 81705-C. Durastat® LD-120 will provide similar performance in LLDPE and LDPE / LLDPE Blends.

Durastat® LD-120 contains an enhanced antiblock package and is therefore especially suited for applications requiring dry, unblocked surfaces.

Typical Physical Properties*

Property	Units	Typical Value	Test Method
Specific Gravity	g/cm ³	1.02	ASTM-D-792
Electrostatic Decay	sec.	0.6	mil 81057
Surface Resistivity	Ohms/sq	<1012	ASTM D-257
Typical Letdown for Mil Spec B-81705-C	%	2-5	PPC Method

* Values obtained after 48 hours at 12% relative humidity on 2 mil LDPE film with a 6.0% concentration of Durastat® LD-120.

Polycarbonate Stress Performance: (2 mil film with 4.0 % Durastat® LD-120)

73°F	120°F	158°F	185°F
>3400 psi	>3400 psi	1700 psi	1700 psi

Durastat® Masterbatches Improve YOUR Final Product Quality.

Adequate mixing is essential to developing maximum performance from anti-static additives. Since the anti-static ingredients in Durastat® Masterbatches are thoroughly wetted with plastic, they are much more easily dispersed than individual dry ingredients. As a result, the use of concentrates rather than dry powders can improve both the anti-static and physical properties of the end product, and in many cases permit a lower loading.

Cleaner, More Efficient Production with Durastat® Masterbatches.

Plastics processors who use concentrates rather than dry powders benefit from a clean plant with minimal housekeeping. Employee dust exposure likewise is minimized. And there are fewer materials to inventory. Materials handling is simplified with free-flowing, non-bridging concentrates that can be transferred easily with pneumatic conveyors.

Further, concentrates increase product efficiency through higher production rates with less power consumption and higher yields because additive loss is reduced. There's also less abrasion and equipment wear with concentrates.

Handling and Use

Durastat® anti-static compounds and concentrates are considered to be non-hazardous under normal conditions. Material Safety Data Sheets are available on all these products, and you are encouraged to read and understand these documents before using the product. Since these products are used at elevated temperatures, fumes may be generated under some use conditions. Ventilation is necessary to minimize employee exposure to these fumes.

Packaging and Samples

Standard packaging for concentrates is in 1,000-lb boxes, lined and on pallets. Optional are 250-lb fiber drums and 50-lb bags. To meet particular needs, boxes up to 1,400 lb can be supplied.

Samples are available on request by calling Polymer Products' toll-free order number: 1-800-836-8589.

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