



# POLYBATCH® APS 897

## Masterbatch

### Product Description

POLYBATCH® APS 897 is a specialty antistatic masterbatch based in medium impact polystyrene. POLYBATCH® APS 897 is recommended for use in extrusion film, sheet, and injection molding applications. POLYBATCH® APS 897 gives a slight opacity to crystal polystyrene and is therefore not recommended for high clarity applications.

### General

Material Status	<ul style="list-style-type: none"> <li>Commercial: Active</li> </ul>
Availability	<ul style="list-style-type: none"> <li>North America</li> </ul>
Uses	<ul style="list-style-type: none"> <li>Masterbatch</li> </ul>
Processing Method	<ul style="list-style-type: none"> <li>Cast Film</li> </ul>

Physical	Nominal Value (English)	Nominal Value (SI)
Additive Content	15.0 %	15.0 %
Specific Gravity	1.00	0.998 g/cm <sup>3</sup>
Moisture Content	< 1000 ppm	< 1000 ppm
Dosing/Addition Rate	4.0 to 8.0 %	4.0 to 8.0 %

### Usage

POLYBATCH® APS 897 should be added from 4 to 8% depending on the thickness of the part and the rubber content in the impact polystyrene: the thinner the part and the higher the rubber content (=impact resistance), the more POLYBATCH® APS 897 should be used. Higher loadings might be necessary because of pigmentation like carbon black, etc.

Polystyrene Type	Part Thickness (mm)	APS 897 (%)	Surface Resistivity (ohm)	Charge Decay Time (seconds)
Crystal	1	5	$7.5 \times 10^{10}$	1.5
Medium Impact	1	5	$1.2 \times 10^{11}$	6.2
High Impact	1	5	$8.0 \times 10^{11}$	9.8
	1	8	$1.0 \times 10^{11}$	2.5
Medium Impact	5	5	$6 \times 10^{10}$	0.8
	8	4	$2.6 \times 10^{11}$	1.5
	10	4	$4.0 \times 10^{10}$	1.0

Antistatic agents migrate to the surface to become effective. One should carefully evaluate all conditions related to the printing and/or adhesive lamination of the final parts.

### Regulatory

POLYBATCH® APS 897 is made only from FDA recognized materials. Detailed information is available upon request.

### Packaging & Storage

POLYBATCH® APS 897 is typically packaged in moisture barrier bags or foil lined gaylords. POLYBATCH® APS 897 can be stored up to maximum 6 months at 25°C for optimum performance. Higher temperatures might reduce storage time considerably.