

Technical Information

METABLEN* P-551A – Process Aid

METABLEN P551A is an acrylic process aid that offers significant benefits to processors of rigid PVC bottles, film and sheet, and molded products. This additive is designed to offer maximum dispersability in rigid PVC application, which results in finished goods that have excellent clarity and are free from undispersed gel particles together with higher efficiency.

Product Benefits

1. Ease of Dispersability
The chemical composition of **METABLEN P551A** combined with a unique manufacturing process, yields a product that is highly dispersible in rigid and flexible PVC. This produces excellent clarity, without undesirable gels in the finished product.
2. Uniformity
METABLEN P551A, because of a unique manufacturing process, is a uniform product showing excellent consistency from bag-to-bag and lot-to-lot. This insures bottle manufacturers constant bottle weight. It also promotes uniform thermoforming from part - part.

Typical Physical Properties

Physical Form:	White Powder
Bulk Density:	0.22-0.42
Particle Size:	2% on 35 mesh
Percent Volatile:	1% max.

Typical Starting Formulation

	<u>Use Level (phr)</u>	
	General	Food
PVC Resin (K-60)	100.0	100.0
Metablen C-201A	6.0 - 12.0	6.0 - 12.0
Metablen P-551A	1.5-2.0	1.5-2.0
Metablen P-710	0.7-1.0	0.7-1.0
Dibutyl tin mercaptide	0.6-1.2	-
Diocetyl tin mercaptide	-	1.2-1.5
Internal Lubricant	1.2-1.5	1.2-1.5
External Lubricant	0.1-0.5	0.1-0.5
Toner	As Required	As Required

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Typical Performance Characteristics

	<u>P551</u>	<u>No Process Aid</u>
Charpy Impact Strength(kg. cm/cm ²)	2.9	2.9
Tensile Strength (kg / cm ²)	610	590
Total Light Transmission (%)	86	87
Haze Value (%)	9.5	8.3

⁽¹⁾ In a control formulation

Technical Service

MITSUBISHI CHEMICAL CORPORATION offers complete technical service assistance in using METABLEN P-551A. Our laboratories and personnel are ready and willing to assist you with any phase of your evaluation from formulation work to end product listing. For further information on METABLEN P-551A, contact your Sales Representative or nearest sales office.

Safety And Industrial Hygiene

METABLEN P-551A is a polymeric powder, which may be irritating to the eyes, skin and upper respiratory tract upon prolonged or repeated exposure. This product should be used with adequate ventilation, both to protect employees from excessive exposure and to insure conditions, which could cause a dust explosion are avoided. If adequate ventilation is not available, an approved respirator for nuisance dust should be employed. Employees should wear gloves, eye protection and use fresh clothing daily.

Suggested First Aid

In the event of skin contact, wash thoroughly with soap and water. In case of eye contact, wash eyes with a flowing stream of water for at least 10 minutes and consult a physician if irritation develops. Contaminated clothing should be laundered before reuse.

Note

A “Material Safety Data Sheet” on this product is available on request from MITSUBISHI CHEMICAL CORPORATION Performance Additives Department.

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