

METABLEN* P-533J – Process Aid

METABLEN P533J is an acrylic process aid that offers significant benefits to processors of PVC foamed articles - both flexible and rigid - and all other types of flexible PVC. In addition, **METABLEN P533J** can be used in many rigid PVC applications where lower molecular weight process aids are currently used.

Product Benefits

1. Ultra-High Molecular Weight

The molecular weight of a process aid is the most important factor that determines the efficiency of a polymer as a process aid. **METABLEN P533J** is the highest molecular weight process aid, therefore it can be used at lower use levels or at the same use level to improve processing, physical properties and product appearance.

2. Resistance to Plasticizers

Because of its unique chemical composition, **METABLEN P533J** is extremely resistant to solution by plasticizers. In many flexible PVC applications special care is needed when adding plasticizers during blending in order to prevent the process aid from forming large agglomerates that are not easily dispersed. This is not a problem with **METABLEN P533J**.

3. High Melt Viscosity

Because **METABLEN P533J** has a very high molecular weight, it produces high melt viscosity in PVC compounds. This is especially useful in rigid profiles - either solid or foamed - as the product tends to hold its shape better as it exits the die.

4. Uniformity

Because of a unique manufacturing process, **METABLEN P533J** is a very uniform product which is extremely consistent from bag-to-bag and lot-to-lot. This removes some of the processing problems long associated with other process aids.

Typical Physical Properties

Physical Form:	White Powder
Bulk Density:	0.5 ± 0.2g/cc
Particle Size:	1% on 35 mesh
Percent Volatile:	1.5% max.

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Typical Performance Characteristics

	Fusion Behavior		Transparency	
	Fusion time	Average torque	Total light transmittance	Haze
	sec.	Kg·m	%	%
BLANK	-	-	82.7	8.0
P533J	56	4.40	81.6	8.3

⁽¹⁾ In a control formulation

Technical Service

mitsubishi chemical corporation offers complete technical service assistance in using METABLEN P-533J. 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-533J, contact your Sales Representative or nearest sales office.

Safety And Industrial Hygiene

METABLEN P-533J 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 Metablen Department.

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