KM-1 Technical Data Sheet

Product Characteristics

PARALOID™ KM-1 acrylic impact modifier belongs to the new generation of the Dow Chemical Company acrylic impact modifiers (AIMs) designed to outperform existing vinyl additives across a range of processing conditions. This new powder modifier provides outstanding impact and rheological performance properties. This unique combination of properties affords conventional AIMs users the opportunity to switch to PARALOID KM-1 Acrylic impact modifier with minor or no adjustment to existing formulations.

In addition, the core shell structure of this new modifier has been designed to offer an improved impact strength efficiency satisfying all standards, across a range of processing conditions.

Applications

KM-1 Impact Modifiers is recommended for being used in PVC formulations for a wide range of applications such as:

- PVC door and window profiles
- Siding
- Pipe
- Injection molding Fittings
- Calendaring or extrusion of opaque films and sheets

Specifications & Properties

Appearance:	White powder
Volatiles:	1.5 % max
Bulk Density:	0.3-0.5 g/cm^3
Funnel flowability:	20 mm
Minimum ignition energy:	200-300 mJ
Minimum ignition temperature:	420 °C
Layer ignition temperature	> 400 °C

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Properties

Key properties provided by PARALOID™ KM-1 acrylic impact modifier is as follow:

- No stress built-up
- Consistent surface finish (Gloss)
- Low post-extrusion shrinkage
- Reduced or no plate-out
- High impact strength
- Good resistance to compaction
- Unparalleled weathering performance

Packing

In 20kg bags

Product Storage

Storage and Store unopened in original packaging at ambient temperature. If material is opened, it handling should not be left exposed and should be used within one month. When stored correctly precautions in the original packaging, the shelf life is 3 years from date of manufacture.

Safety Precautions

Before using this product, consult the Safety Data Sheet (SDS)/Material Safety Data Sheet (MSDS) for details on product hazards, recommended handling precautions and product storage. Contact Dow for copies of the SDS/MSDS and for more information on this product. Information contained in a TDS document cannot substitute an SDS/MSDS.

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