

PARALOID™ KM-1

Technical DataSheet | Supplied by Dow

Acrylic impact modifier. It is designed to outperform existing vinyl additives across a range of processing conditions. Provides outstanding impact and rheological performance properties. This unique combination of properties affords conventional AIMs users the opportunity to switch to PARALOID KM-1. 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. Provides no stress built-up, consistent surface finish (Gloss), low post-extrusion shrinkage. Possesses reduced or no plate-out, high impact strength, good resistance to compaction and unparalleled weathering performance. Used for weatherable vinyl building applications.

Product Type	Impact Modifiers > Acrylic-based
Chemical Composition	Acrylic Polymer
Masterbatch	No
Physical Form	Powder
Product Status	COMMERCIAL
Geographical Availability	Central and Eastern Europe, Western Europe
Applications/ Recommended for	PVC > PVC, rigid PVC > PVC, flexible Buildings & constructions Mechanical/ physical performance > Impact resistance Visual aspect & aesthetics > Gloss effect Polymer protection > Weatherability (UV, moisture, Oxygen...)
Bio Based	No

PARALOID™ KM-1 Properties

Property	Value & Unit	Test Condition	Test Method
Funnel flowability	20 mm		
Ignition energy	200 - 300 mJ		
Ignition temperature	420 °C		

Layer ignition temperature > 400 °C

Particle size on 0.600 mm < 7

Particle size on 0.250 mm < 60

Particle size Trough 0.045 mm < 25

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