

AKRELON[®] PA 125 / Acrylic Processing Aid

DESCRIPTION

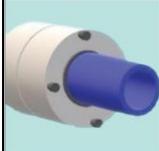
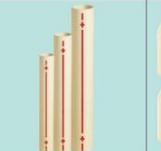
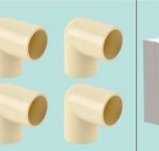
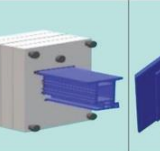
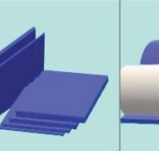
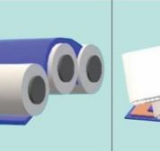
AKRELON PA 125 is a medium-high molecular weight, very versatile and high-quality Processing Aid which is especially suitable for challenging applications like injection molding, window profiles and clear rigid sheets. It can also be used in any PVC application to impart optimum fusion characteristics and high melt strength. Its monomer chemistry is perfectly balanced to give high clarity in any transparent applications like rigid films.

Its high-quality monomer composition and optimized molecular weight (IV 4.0 – 4.5) enable excellent compatibility in PVC, improved melt strength and significantly high surface gloss. Improved melt homogeneity imparted by **AKRELON PA 125** enhances filler dispersion and impact strength properties as well. Thanks to increased melt strength, better dimensional stability and higher output are obtained.

PHYSICAL PROPERTIES

Chemical Description	Acrylic copolymer
Physical Form	White free-flowing powder
Bulk Density (g/cm³)	0.43 – 0.53
Volatile Content (wt.%)	1 ± 0.2%
Sieve Analysis	20 mesh/850 µm (on %) ~nil 325 mesh/45 µm (pass%) - 1.30% 450 mesh/32 µm (pass %) - 0.42%
Molecular Weight	Medium Molecular (IV 4.0 - 4.5)
Packaging	20 kg PE bag
Shelf Life	3 years from date of manufacturing

APPLICATION CHART

								
UPVC Pipes & One pack	UPVC Fittings & One pack	CPVC Pipes & Super pack	CPVC Fittings & Super pack	Window Profiles	Rigid PVC Sheet/ Laminates / Marble /Liner	Transparent Rigid Sheet	WPC, SPC and Panels	PVC Edge Band
++	+++	N/A	+++	N/A	++	++	++	N/A

+++	Strongly Recommended
++	Recommended
N/A	Not Applicable

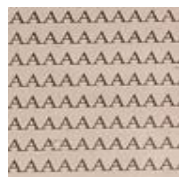
PERFORMANCE

1. RHEOLOGY COMPARISON

	AKRELON PA 125	Competitor A	Competitor B
Fusion Time (s)	72	80	80
Fusion Torque (Nm)	28.6	28.1	27.6

Faster fusion compared to competitors imparts optimum mechanical properties, surface finish and ease of processing at the same time for challenging applications like injection molding, window profiles and clear rigid sheets.

2. TRANSPARENCY COMPARISON

	AKRELON PA 125	Competitor A	Competitor B
			
Yellowness of sheet on white paper (b value)	-2.7	- 2.6	- 2.2

Color values of the transparent sheets are measured on white paper. The lower the b value, the higher the transparency. **AKRELON PA 125** shows superior transparency compared to the competitors.