

AKRELON[®] PA L 180 / Lubricating Processing Aid

DESCRIPTION

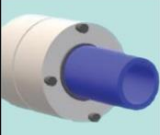
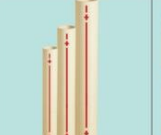
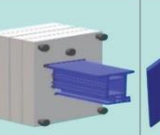
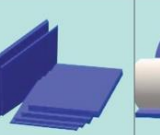
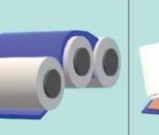
AKRELON PA L180 is a low molecular weight lubricating processing aid which can be used across **opaque PVC applications** to ensure efficient external lubrication and die release without delaying fusion. Thanks to its polymeric structure and well-balanced molecular weight, it forms a very heat stable and non-sticking lubricating film. This improves surface finish significantly and avoids sticking in the hot die or calendering rolls.

Having a chemistry compatible with PVC resin, **AKRELON PA L180** stays attached to the PVC matrix during processing and does not leave deposits on the tooling. As a result, this product can replace polyethylene or similar waxes to reduce plate-out and prolong tool cleaning period. Apart from lubrication properties, it promotes fusion, improves melt strength and improves melt homogeneity.

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%) – 0.90%
	450 mesh/32 µm (pass %) - 0.40%
Molecular Weight	Low molecular weight (IV 0.8- 1.2)
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

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

PERFORMANCE

1. RHEOLOGY COMPARISON

	AKRELON PA L180	Competitor A	Competitor B	Competitor C
Fusion Time (s)	78	69	86	79
Fusion Torque (Nm)	26.3	26	25.3	25.2

2. TIME TO STICK

	Time (min)						Time to Stick
	5	10	15	20	25	30	
AKRELON PA L180							34
Competitor A							28
Competitor B							26
Competitor C							27