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FIRE RETARDANTS

AKROCHLOR™ CHLORINATED PARAFFINS

APPLICATION/DESCRIPTION:

Akrochlor chlorinated paraffins are a low cost source of halogen for flame retardant purposes (usually in concert with Sb_2O_3) and are compatible with most polymers (use resin product in EPDM for maximum compatibility). Grade selection is usually based on the best combination of chlorine content, viscosity, volatility and cost for the end-use product. Akrochlor chlorinated paraffins are available in a variety of grades, in both liquid (L-Grades) and resin (R-Grades) form. Akrochlor resin grades offer the highest chlorine content, but liquids are often used for the combination effect of plasticizer and flame retardant. Akrochlor R-70S has slightly better heat stability than the standard R-70 Grade. Chlorinated hydrocarbons are also very resistant to microbial and fungi attack.

TYPICAL PROPERTIES - LIQUID GRADES:

Grade	Chlorine WT %	Specific Gravity	VISCOSITY		VOLATILITY		STABILITY JQD method	
			SUS 210°F	SUS 100°F	Poises 77°F	4 hrs. 150°C	24 hrs. 100°C	%HCl 4 hrs. @ 175°C
L-39	39	1.09	63	560	3	5.0	3.0	0.3
L-40	40	1.11	90	1300	8	2.0	0.5	0.3
L-42	42	1.15	149	3900	29	1.5	0.8	0.3
L-45	45	1.16	50	390	2.5	7.0	1.5	0.2
L-63	62	1.41	317	88,780	450	----	0.5	0.2

TYPICAL PROPERTIES - RESIN GRADES:

Grade	Chlorine WT %	Sp.Grav. 25°/25°C	Particle	Color Gardner	Volatility	Soft Pt. B&R, °C	Stability
			Size Thru 50 Mesh				4 hrs. at 175°C
R-70	70	1.60	94	< 1	N.V.	102	0.3
R-70S	70	1.60	94	< 1	N.V.	102	0.1

gpb - 8/09, t-akrochlor

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