

SAYTEX® RB-79 FLAME RETARDANT

DESCRIPTION

SAYTEX RB-79 flame retardant is a stable, reactive bromine-containing diester/ether diol of tetrabromophthalic anhydride. The nominal structure of SAYTEX RB-79 flame retardant is a mixed ester of tetrabromophthalic anhydride with diethylene glycol and propylene glycol.

APPLICATIONS

Reactive diol for rigid polyurethane foam
Urethane elastomers and coatings

FEATURES

- Reactive diol
- High bromine content
- Scorch resistant

TYPICAL PROPERTIES

Molecular formula (theoretical)	C ₁₅ H ₁₆ O ₇ Br ₄
Appearance/form	Amber/liquid
Viscosity (cP @ 25 °C)	80000-135000
Viscosity (cP @ 60 °C)	1400-2100
% Bromine (wt %)	45
Specific gravity	1.8
Bulk density, lb/gal (kg/m ³)	15.02 [1800]
TGA (% wt loss @ °C)	
1%	107
5%	165
10%	210
50%	355
90%	400
Hydroxyl number (mg KOH/g)	200-235
Acid number (mg KOH/g), max.	0.25
Water (wt %), max.	0.20
Solubility (wt. % at 25 °C)	
Water	<0.1
Acetone	Soluble
Methanol	<0.1
Toluene	Soluble
HCFC 141b	6
HFC 245fa	23
HFO 1233zd(E)	<1.0

These properties are typical but do not constitute a specification either in part or as a whole. Specification data is available on request from sales, customer service or customer technical service.

CHEMICAL REGISTRATION NUMBERS

CAS: 77098-07-8
EUCAS: 20566-35-2
EINECS: 2438850

RESPONSIBLE CARE

Albemarle is committed to the safety and well-being of our customers, employees and the community at large. Safety data sheets (SDS) are available upon request.



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