

PRODUCT DATA SHEET - FLAME RETARDANTS

Business Unit Additives

EXOLIT IFR 36

Ammonium Polyphosphate

Chem. Group: Ammonium Polyphosphate Supply Form: white, free-flowing CAS-No.:

powder

Product-No.: 155901 Chemical

Formula:

PRODUCT DESCRIPTION

Exolit IFR 36 is a non-halogenated flame retardant based on ammonium polyphosphate, which develops its effectiveness through phosphorus/nitrogen synergism. Exolit IFR 36 differs in its mode of action from chlorine- or bromine-containing flame retardants by achieving its effect through intumescence. The flame retarded material foams on exposure to flame. The carbon foam layer so formed protects the polymer through its heatinsulating effect and reduces further oxygen access.

DELIVERY SPECIFICATION AND TECHNICAL DATA

CHARACTERISTICS	UNIT	TARGET VALUE	DS¹) TD²)	TEST METHOD
Phosphorus	% (w/w)	approx. 20	⊠ O	
Nitrogen	% (w/w)	approx. 15	⊠ O	
Density	g/cm³	approx. 1.8	OX	
Solubility in Water	% (w/w)	< 10	OØ	at 25 °C in 10 % aqueous suspension
Decomposition Temperature	°C	> 230	OX	
Average Particle Size (D50)	μm	approx. 12	OØ	
Particle Size Distribution	% (w/w)		Ø O	
	< 275 μm	> 98.5		
		-	_	
		-		
		-		
		-	_	
Weight Loss			⊠ O	
	1% (w/w)	> 230		
	5% (w/w)	approx. 298	_	
	10% (w/w)	approx. 334	_	
	50% (w/w)	approx. 580		
		-		

¹⁾ Delivery specification: The product is constantly monitored to ensure that it adheres to the specified values.

2)	Technical	data:	The	technical	data	are	used	solely	to	describe	the	product	and	are	not	subject	to	regular	monitoring
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APPLICATIONS

Exolit IFR 36 may be used in a range of thermosets, especially epoxy resins. It is suitable both for coating and reinforced materials. In composites Exolit IFR 36 may be used alone or in combination with aluminium trihydrate (ATH).

SAFETY AND HANDLING

Clariant Additives Web Site:

For regulatory details such as the classification and labelling as dangerous substances or goods please refer to our corresponding material safety data sheet.

DISPATCH AND STORAGE	PACKAGING							
GGVE/RID	Exolit IFR 36 is supplied in PE bags with 20 kg net weight. The bags are delivered on pallets with 800 kg net weight.							
GGVS/ADR								
ADNR								
IMDG-Code	_							
UN Number	_							
IATA-DGR	_							
see Material Safety Data Sheet								
For all specifications, deliveries and services the following applies: <u>Contact Flame Retardants</u>								
Clariant Web Site: http://www.clariant.com	Contact Us							

http://additives.clariant.com