



DR. J. PHARMACHEM (INDIA)

POLYMER	FR-HALOGENATED
FR 245	Technical Datasheet

Product Information: POLYMER ADD-FR 245 is a brominated cyanurate additive flame retardant. The combination of aromatic bromine and cyanurate provides high FR efficiency and good thermal stability. It is especially valuable because it meets the (UL-94) standard, class V-2 and V-0 ratings.

Chemical Name	FR 245															
Grade Name	FR 245															
CAS No.	25713-60-4															
EINECS No.	426-040-2															
Molecular Formula	C ₂₁ H ₆ Br ₉ N ₃ O ₃															
Synonyms	<ul style="list-style-type: none"> • Tris(Tribromophenyl)Triazine • 2,4,6-Tris(2,4,6-tribromophenoxy)-1,3,5 triazine • Tri(tribromophenyl) cyanurate 															
TEST	SPECIFICATION	METHOD														
Appearance	Form: Powder Colour: White	Visual														
Purity	98 % Max.	By HPLC														
Bromine Content	67.4 % Max.	XRF analysis														
Melting Range	227 - 230 °C	Melting point apparatus (open capillary tube method)														
Volatile Content	0.5 % Max.	Oven drying														
Moisture Content	0.5 % Max.	KF Titration														
Solubility at 25 °C	<table border="1"> <tr> <td>Solvent</td> <td>Solubility (gm/100ml)</td> </tr> <tr> <td>Carbon Tetrachloride</td> <td>17</td> </tr> <tr> <td>Methanol</td> <td>0.2</td> </tr> <tr> <td>Methylene acetate</td> <td>3</td> </tr> <tr> <td>Methyl Ethyl Ketone</td> <td>4</td> </tr> <tr> <td>Toluene</td> <td>28</td> </tr> <tr> <td>Water</td> <td>Insoluble</td> </tr> </table>	Solvent	Solubility (gm/100ml)	Carbon Tetrachloride	17	Methanol	0.2	Methylene acetate	3	Methyl Ethyl Ketone	4	Toluene	28	Water	Insoluble	Visual
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Water	Insoluble															

Product Applications:

1. POLYMER ADD-FR 245 is used as a flame retardant in polyethylene and its copolymers.
2. It is mainly used in acrylonitrile-butadiene-styrene and high impact polystyrene.
3. It is an additive flame retardant widely used in polycarbonate, polyphenylene oxide, polybutylene terephthalate and Polyethylene terephthalates resin.



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Product Benefits:

1. POLYMER ADD-FR 245 provides high efficiency and good thermal stability.
2. It combines good UV, impact and flow properties.
3. It is cost efficient flame retardant.

Product Dosage: We strongly recommend testing of your own system under the actual conditions of processing and end-use prior to full scale testing. Exact loading must be determined by compositions of the specific polymer systems.

Polymer Details	Suggested dosage
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Product Handling & safety:

Please refer to our product MSDS for specific instructions on handling this product.

Product Registration: POLYMER ADD-FR 245 is not recommended for food contact polymers.

Title:

Chapter:

Subchapter:

Part:

Subpart:

Section:

Product Disclaimer

Important : This statement supersedes any Buyers documents. Seller makes no representation, Warranty, Express or Implied, Including of Merchantability of Fitness for a particular use, or purpose.

No statement herein is to be construed as inducements to infringe any relevant patent. Under no circumstances shall Seller be liable for incidental, consequential or indirect damages for alleged negligence breach of warranty, strict liability, and tort or contact rising in connection with product(s). Buyers sole remedy and Sellers sole Liability for any claims shall be buyers purchase price. Data and results are based on controlled or lab work and must be confirmed by the buyer by testing for its intended conditions of use.

This product is not been tested for, and is therefore not recommended for, use for which prolonged contact with mucous membranes, abraded skin, or blood is intended, or for use for which implantation within human body is intended.