

Irganox® 3052 FF

Technical DataSheet | Supplied by BASF

Irganox® 3052 FF is an antioxidant. It contains 2-(1,1-dimethylethyl)-6-[[3-(1,1-dimethylethyl)-2-hydroxy-5-methylphenylmethyl-4-methylphenyl acrylate. It is non-staining, non-discoloring, has a low volatility and is resistant to extraction. Irganox® 3052 FF protects organic substrates against both, thermo-oxidative and purely thermal degradation. It is particularly active under high processing temperature and anaerobic polymerization and processing conditions. It is compatible with HIPS, ABS, BR, IIR, SBR, SBS, SEBS, EPDM, EPM, MBS, MABS, SMA, modified acrylate, hydrocarbon resins, terpene, terpene phenolic resins, rosin, polycarbonates, polyester-carbonates, polymethacrylates, polyolefins, polyamides or polyphenyleneoxides. Its recommended dosage rate is 0.05-0.5%. It is suitable for food contact applications. It is listed in AICS, EINECS, PICCS, DSL, MITI, TSCA, CHINA and ECL.

Product Type	Antioxidants > Phenolics
Chemical Composition	2-(1,1-dimethylethyl)-6- [[3-(1,1-dimethylethyl)-2-hydroxy-5-methylphenylmethyl-4-methylphenyl acrylate
CAS Number	61167-58-6
Masterbatch	Yes
Physical Form	Granules, Crystalline
Appearance	White to off-white
Product Status	DISCONTINUED
Applications/ Recommended for	PS (Polystyrene) > HIPS SBR Other Rubber > EPDM ABS Other Rubber > BR Isobutylene isoprene rubber IIR, Ethylene propylene rubber EPM, Methacrylate-butadiene-styrene MBS, Styrene maleic anhydride SMA Safety, regulation & environment > Low volatiles
Food contact approval	Yes
Labels/Agency Rating	AICS, EINECS, PICCS, DSL, MITI, TSCA, CHINA, ECL

Irganox® 3052 FF Properties

Property	Value & Unit	Test Condition	Test Method
Melting range	128 - 132 °C		
Flash point	200 °C		
Vapor pressure @ 20°C	0.0000011 Pa		
Molecular weight	394 g/mol		
TGA in air @ 20°C, 1% wt loss	190 %		
TGA in air @ 20°C, 10% wt loss	245 %		
Solubility @ 20°C in chloroform	30 w/w%		
Solubility @ 20°C in methylene chloride	29 w/w%		
Solubility @ 20°C in acetone	9 w/w%		
Solubility @ 20°C in ethyl acetate	2 w/w%		
Solubility @ 20°C in n-Hexane	0.2 w/w%		
Solubility @ 20°C in methanol	0.2 w/w%		
Solubility @ 20°C in toluene	2 w/w%		

Solubility	Element	Test Condition	Test Method
Insoluble in	water		

SpecialChem additionnal informations Based on CAS Number : 61167-58-6

Hansen Solubility Parameters

[17.5, 0.2, 4.1]

[δ D - Dispersion force interactions, δ P - Polar force interactions, δ H - Hydrogen bond force interactions]

Please note, these HSP values are estimations. It is based upon the like seeks like principle. It splits an ingredients interactions into three parameters; δ D (Dispersion force interactions), δ P (Polar forces interactions) and δ H (Hydrogen bond force interactions). Hansen Solubility Parameters can help you find a wide range of products that are predicted to be compatible with Irganox® 3052 FF. A practical determination of these HSP values would provide higher certainty. [Learn More.](#)

Help us improve the Universal Selector

You can't find what you are looking for? Please report missing products / suppliers, point out errors, or simply tell us how we could make the Universal Selector better.