

## I-SAN 50

### TECHNICAL DATA SHEET

#### TECHNICAL INFORMATION

INOLUB™ I-SAN 50 is composed of particles of high molecular weight emulsion grade PTFE, where each PTFE particle is encapsulated by a shell of Styrene-acrylonitrile (SAN) copolymer. I-SAN 50 is primarily used as drip suppressant additive in flame-retardant (FR) formulations of thermoplastics such as PC, ABS, PC/ABS Alloy, PPO, PBT, HIPS and PP.

#### PRODUCT FEATURES

- Excellent dispersibility
- Easy handling
- Excellent fibrillation
- Improve flame retardancy
- Uniform surface appearance
- PFOA free

#### TYPICAL PROPERTIES

Properties	Test Method	Unit	Nominal Value
Appearance	INTERNAL	-	White
PTFE Content	ASTM E2550	%	50
Bulk Density	ASTM D1895	g/l	450
D50	ASTM 4895	µm	500
Moisture Content	INTERNAL	%	0.3

Note: These are typical properties and not to be used for specification purposes.

#### UL COMPLIANCE

The INOLUB™ I-SAN 50 additive suppresses dripping and enhances the ability of the FR thermoplastic formulations to comply with UL-94 V0 and 5V standards.

#### UL 94 STANDARD REFERENCE

UL 94	V0	V1	V2
Burning time once (s)	≤ 10	≤ 30	30
Burning time total (s)	≤ 50	≤ 250	≤ 250
Burning of cotton by dripping	No	No	Yes

# INOLUB™ I-SAN 50

## DOSAGE

The typical dosing of I-SAN is between 0.1% and 0.5% in the polymer compound, depending on the requirement for flame retardancy.

Engineering Plastics		Dosage (%)
Acrylonitrile Butadiene Styrene	ABS	0.2
High-Impact Polystyrene	HIPS	0.2
Polyamide	PA	0.2
Acrylonitrile Butadiene Styrene/ Polycarbonate alloy	ABS/PC	0.3
Polybutylene terephthalate	PBT	0.3
Polyethylene	PE	0.5
Polypropylene	PP	0.5
Polycarbonate	PC	0.5

## PACKAGING

INOLUB™ I-SAN 50 is available in 25 Kg (55.1 gal) plastic bag /drum.

## HANDLING AND STORAGE

INOLUB™ I-SAN 50 can be stored in clean, dry area away from heat or high temperature.

## PROCESSING

INOLUB™ I-SAN 50 can be directly added into the formulation during plastic compound extrusion.

The typical dosing is between 0.1% and 0.5%, depending on the FR requirements and the polymer formulation.

## SAFETY PRECAUTIONS

Please read the Material Safety Data Sheet and the detailed information in the "Guide for the Safe Handling of Fluoropolymer Resins" published by the fluoropolymer division of the Society of the Plastic Industries available at [www.plasticseurope.org](http://www.plasticseurope.org)

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WARNING: Do not use any of INOLUB™ PTFE additives in medical devices that are designed for permanent implantation in the human body. For other medical uses, prior permission of GFL may be sought.

## SALES AND TECHNICAL SUPPORT

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