

## **R740F** **(Rheology modifier)**

# TECHNICAL DATA SHEET

### TECHNICAL INFORMATION

INOLUB® R740F is a high molecular weight, polytetrafluoroethylene (PTFE) fine powder resin. INOLUB® R740F is recommended for use as a drip suppressant additive to be incorporated in flame-retardant formulations, as well as a melt strength additive to boost processing in demanding manufacturing technologies like extrusion blow moulding. When INOLUB® R740F is added to engineering plastics such as polycarbonate, polypropylene, polyamide, ABS, polystyrene, PBT (Polyester), etc., forms a microscopic node and fibril structure within the polymer matrix which tends to contract and exerts a strong influence on melt behaviour.

### FEATURES AND BENEFITS

- VO classification in the Underwriters Laboratory 94 test
- Easy to handle free flowing powder
- More effective after blending

### PROPERTIES

Properties	Test Method	Unit	Nominal Value
Appearance	-	-	White free flowing powder
Bulk density	ASTM D4894	g/l	500
Mean particle size	ASTM D4894	µm	500
Specific surface area	Nitrogen Adsorption	m <sup>2</sup> /g	>7
Melting point	ASTM D4894	°c (°F)	342 (648)

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

### PROCESSING

INOLUB® R740F can be used 0.1 to 2.0% by weight percent as an additive to introduce anti-drip properties to the host polymer, in combination with FR additives. When compounded, e.g. in a twin-screw extruder, under high shear, the agglomerated particles disperse and form a fibril like structure inside the polymer matrix. These fibrils create a physical web embedded in the thermoplastic. In the case of fire, this network shrinks and inhibits the formation of burning droplets.

### FDA/EU STATEMENT

INOLUB® R740F meets the compositional requirement of Food and Drug Administration (FDA) regulation 21 C.F.R.177.1550, and EU food contact regulation 10/2011. A detailed statement is available upon request.

# INOLUB® R740F

## PACKAGING

INOLUB® R740F is available in 25 kg plastic drum.

## STORAGE

INOLUB® R740F may be stored indefinitely, provided that the packaging remains unopened and that it has been stored in a clean and dry area at temperature below 19°C (66°F).

## SAFETY AND HANDLING

Although INOLUB® R740F presents no safety hazard under normal handling conditions, please refer to the Material Safety Data Sheet to avoid potential hazards before processing.

INOLUB® is the brand name of Gujarat Fluorochemicals Limited (GFL) used for its brand of fluoropolymer additives. INOLUB® can be used in applications duly approved by GFL. Customers who plan to use the word INOLUB® as the trademark on or relation to their manufactured parts and other products in any style or combination or any manner whatsoever must contact GFL for prior permission for such use. No consumer/user of GFL fluoropolymer additives is permitted to claim that their products contain INOLUB® without prior permission from GFL.

The information provided in the bulletin is furnished at no cost to the recipient and is based on the information and technical data that Gujarat Fluorochemicals Limited believes is correct and sound. Those who choose to use the information must be technically qualified, and do so entirely at their own cost and risk. The users must determine and ensure that their specific conditions of processing present no health or safety hazards. GFL does not warranty, either expressly or impliedly in respect of the use of this information for application of its INOLUB® branded fluoropolymer additives and shall bear no liability as a result of any loss or damage caused directly or indirectly due to use of any information provided in this bulletin. Nothing contained herein can be taken or construed as a grant of license by GFL to operate under or a recommendation to infringe any patents.

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

### Corporate & Marketing office:

#### Gujarat Fluorochemicals Limited

Inox Towers, Plot no. 17, Sector 16/A

Noida-202301, U.P., INDIA

Tel: +91-120-6149600

Fax: +91-120-6149610

### Europe

#### Gujarat Fluorochemicals GmbH

Esplanade 40, 9<sup>th</sup> Floor

20354 Hamburg, Germany

+49 40 5582 395 - 80

### Works

#### Gujarat Fluorochemicals Limited

12/A, GIDC Dahej Industrial Estate.

Tehsil- Vagra, Distt. Bharuch-392230, Gujarat, INDIA

Website: [www.fluonox.co.in](http://www.fluonox.co.in); [www.gfl.co.in](http://www.gfl.co.in)

Email: [contact@gfl.co.in](mailto:contact@gfl.co.in)

### Americas

#### GFL Americas, LLC

1212 Corporate Dr., Suite-540,

Irving, TX 75038, USA

+1 512 446 7700

