

## 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., it forms a microscopic node and fibril structure within the polymer matrix which tends to contract and exerts a strong influence on melt behaviour.

## Product features and benefits

- ◆ V0 classification in the Underwriters Laboratory 94 test
- ◆ Free flowing powder below 19°C (66°F)
- ◆ De-agglomerates under shear for effective blending

## Typical Properties of INOLUB™ R740F

Properties	Test Method	Unit	Nominal Value
Appearance	-	-	White free flowing powder
Bulk Density	ASTM D4895	g/l	500
Mean Particle Size	ASTM D4895	µm	500
Specific Surface area	Nitrogen Adsorption	m <sup>2</sup> /g	>7
Melting point	ASTM D4895	°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 case of fire, this network shrinks and inhibits the formation of burning droplets.

For more information, please contact Gujarat Fluorochemicals Limited

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## FDA/EU Statement

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

## 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 prior to processing.

## Packaging

INOLUB™R740F is available in 25 kg plastic drum.

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**Note 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.

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