

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.

PRODUCT FEATURES

- V0 classification in the Underwriters Laboratory 94 test
- Easy to handle free flowing powder
- More effective after blending

TYPICAL 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 ² /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 21C.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.

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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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