

## INOFLAR™ 1125

### TECHNICAL DATA SHEET

#### TECHNICAL INFORMATION

INOFLAR™ 1125 is a high molecular weight PVDF homopolymer particularly suitable for membrane applications. INOFLAR™ 1125 is also suitable for other applications like coatings and batteries.

#### PRODUCT FEATURES

- High viscosity
- Excellent chemical resistance
- Good solubility in polar solvents
- Good thermal & mechanical performance
- UV resistant
- Easy processability

#### TYPICAL PROPERTIES

Physical	Unit	Value	Test Method
Specific Gravity	-	1.76 – 1.79	ASTM D792
Water Absorption	%	< 0.04	ASTM D570
<b>Rheological</b>			
Melt Mass Flow Rate (230 °C, 12.5 Kg Load)	g/10 min	2 – 6	ASTM D1238
Molding Shrinkage - Flow	%	< 3	Internal Method
<b>Mechanical</b>			
Tensile Modulus	MPa	1300 – 2300	ASTM D638
Tensile Strength (Yield)	MPa	45 – 55	ASTM D638
Tensile Strength (Break)	MPa	35 – 55	ASTM D638
Tensile Elongation (Yield)	%	5 – 10	ASTM D638
Tensile Elongation (Break)	%	>50	ASTM D638
Taber Abrasion Resistance (1000 cycles, 1000 g, CS-17 Wheel)	mg	5 – 9	ASTM D4060
<b>Impact</b>			
Notched Izod Impact Strength (23 °C)	J/m	100	ASTM D256
Unnotched Izod Impact Strength (23 °C)	J/m	1100	ASTM D256

<b>Hardness</b>			
Durometer Hardness (Shore D, 1 sec, 2.00 mm)	-	73 – 80	ASTM D2240
<b>Thermal</b>			
Glass Transition Temperature	°C	-40	ASTM D4065
Melting Temperature	°C	165 – 172	ASTM D3418
Deflection Temperature under load (1.80 MPa)	°C	105	ASTM D648
<b>Electrical</b>			
Volume Resistivity	Ohm-m	$2 \times 10^{12}$	ASTM D257
Dielectric Constant (23 °C, 100 MHz – 100 Hz)	-	4.5 – 9.5	ASTM D150
<b>Flammability</b>			
Oxygen Index	%	44	ASTM D2863

## PACKAGING

INOFLAR™ 1125 powder is available in 25 Kg plastic drums, packed in a polyethylene liner.

## HANDLING AND STORAGE

INOFLAR™ 1125 presents no safety hazard under normal handling conditions. Please refer to the material safety data sheet to avoid potential hazards prior to processing.

INOFLAR™ is the brand name of Gujarat Fluorochemicals Limited (GFL) used for its brand of fluoropolymer resin. INOFLAR™ can be used in applications duly approved by GFL. Customers who plan to use the word INOFLAR™ as the trademark on or relation to their fluoropolymer 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 resin is permitted to claim that their products contain INOFLAR™ 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 INOFLAR™ branded fluoropolymer resin 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.

## SALES AND TECHNICAL SUPPORT

### Corporate & Marketing Headquarter

Gujarat Fluorochemicals Limited  
INOX Towers, 17, Sector-16A,  
Noida - 201301 U.P., India  
+91 120 6149600

### Europe

Gujarat Fluorochemicals GmbH  
Regus Center Watermark 14<sup>th</sup> Floor,  
Überseeallee 10, 20457 Hamburg, Germany  
+49 40 808074-667/668

### Works

Gujarat Fluorochemicals Limited  
12/A Dahej, GIDC, Industrial Estate,  
Tehsil Vagra, Dist. Bharuch 392130, Gujarat, India  
+91 2641 618003

### Americas

GFL Americas, LLC  
1212 Corporate Dr., Suite-540,  
Irving, TX 75038, USA  
+1 512 446 7700

