

INOFLAR™ 1020

TECHNICAL DATA SHEET

TECHNICAL INFORMATION

INOFLAR™ 1020 is a medium molecular weight granular PVDF homopolymer suitable for extrusion, compression molding and transfer molding applications.

PRODUCT FEATURES

- Medium viscosity
- Excellent chemical resistance
- Good dimensional stability
- Good thermal & mechanical performance
- UV resistance
- Easy processability

TYPICAL PROPERTIES

Physical	Unit	Value	Test Method
Specific Gravity	-	1.76 – 1.79	ASTM D792
Water Absorption	%	< 0.04	ASTM D570
Rheological			
Melt Mass Flow Rate (230 °C, 5.0 Kg Load)	g/min	1.5 – 3	ASTM D1238
Molding Shrinkage - Flow	%	< 3	Internal Method
Mechanical			
Tensile Modulus	MPa	1700 – 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, CD-10 Wheel)	mg	5 – 10	ASTM D4060
Impact			
Charpy Notched Impact Strength (23 °C)	J/m	40 – 120	ASTM D6110
Notched Izod Impact Strength (23 °C)	J/m	110	ASTM D256
Unnotched Izod Impact Strength (23 °C)	J/m	1100	ASTM D256

Hardness			
Durometer Hardness (Shore D, 1 sec, 2.00 mm)	-	73 – 80	ASTM D2240
Thermal			
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
Deflection Temperature under load (0.45 MPa)	°C	135	ASTM D648
Vicat Softening Temperature	°C	145	ASTM D1525
CLTE – Flow (0 – 40 °C)	cm/cm/°C	1.4×10^{-4}	ASTM D696
Electrical			
Volume Resistivity	Ohm-m	2×10^{12}	ASTM D257
Dielectric Strength (23 °C, 1.00 mm)	kV/mm	20 - 25	ASTM D149
Dielectric Constant (23 °C, 100 MHz – 100 Hz)	-	4.5 – 9.5	ASTM D150
Flammability			
Oxygen Index	%	44	ASTM D2863

PACKAGING

INOFLAR™ 1020 pellets are available in 25 Kg multilayered bags, packed in a polyethylene liner.

HANDLING AND STORAGE

INOFLAR™ 1020 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 14th 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

