

INOFLAR™ 1005

PVDF

Gujarat Fluorochemicals Limited

Processing/Physical Characteristics	Value	Unit	Test Standard
ASTM Data			
Melt Flow Index	27	g/10min	ASTM D 1238
Temperature	230	°C	-
Load	3.8	kg	-
Density, 73°F	1770	kg/m³	ASTM D 792
Mold Shrinkage, MD	0.03	mm/mm	

Mechanical Properties	Value	Unit	Test Standard
ASTM Data			
Tensile Modulus	2150	MPa	ASTM D 638
Tensile Strength at Yield	55	MPa	ASTM D 638
Tensile Strength at Break	40	MPa	ASTM D 638
Elongation at Yield	7.5	%	ASTM D 638
Elongation at Break	50	%	ASTM D 638
Shore Hardness D (15s)	76	-	ASTM D 2240
Notched Impact Strength (Izod), 1/8 in	110	J/m	ASTM D 256
Impact Strength (Izod), 1/8 in	1100	J/m	ASTM D 256
Taber Abrasion Resistance	7.5	mg/1000 cycles	ASTM D4060

Thermal Properties	Value	Unit	Test Standard
ASTM Data			
Coefficient of Thermal Expansion, MD	140	E-6/K	ASTM D 696
DTUL @ 66 psi	130	°C	ASTM D 648
DTUL @ 264 psi	110	°C	ASTM D 648
Melting Temperature	168	°C	ASTM D 3418
Glass Transition Temperature	-40	°C	ASTM E 1356
Vicat Temperature	140	°C	ASTM D 1525
Limiting Oxygen Index	44	%	ASTM D 2863

Electrical Properties	Value	Unit	Test Standard
ASTM Data			
Dielectric Strength, Short Time	22	kV/mm	ASTM D 149
Volume Resistivity	2E14	Ohm*cm	ASTM D 257

Characteristics

Processing

Injection Molding, Other Extrusion, Rotational Molding

Features

Homopolymer

Delivery form

Pellets

Chemical Resistance

General Chemical Resistance

Special Characteristics

UV stabilized

Applications

Multifilament