

NORYL GTX™ GTX987 resin

Polyphenylene Ether + PS + Nylon

SABIC Innovative Plastics

Message:

Conductive GTX, CTE 7

General Information			
Features	Conductive		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.25	g/cm ³	ASTM D792, ISO 1183
Melt Mass-Flow Rate (MFR) (280°C/5.0 kg)	8.5	g/10 min	ASTM D1238
Melt Volume-Flow Rate (MVR) (280°C/5.0 kg)	7.50	cm ³ /10min	ISO 1133
Molding Shrinkage - Flow (3.20 mm)	1.0 to 1.4	%	Internal Method
Water Absorption			ISO 62
Saturation, 23°C	3.0	%	
Equilibrium, 23°C, 50% RH	0.90	%	
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
-- ¹	3250	MPa	ASTM D638
--	3000	MPa	ISO 527-2/1
Tensile Strength			
Yield ²	55.0	MPa	ASTM D638
Yield	62.0	MPa	ISO 527-2/50
Break ³	55.0	MPa	ASTM D638
Break	62.0	MPa	ISO 527-2/50
Tensile Elongation			
Yield ⁴	5.0	%	ASTM D638
Yield	5.0	%	ISO 527-2/50
Break ⁵	15	%	ASTM D638
Break	20	%	ISO 527-2/50
Flexural Modulus			
50.0 mm Span ⁶	2700	MPa	ASTM D790
-- ⁷	2800	MPa	ISO 178
Flexural Stress			
--	90.0	MPa	ISO 178
Yield, 50.0 mm Span ⁸	95.0	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength ⁹ (23°C)	11	kJ/m ²	ISO 179/1eA

Notched Izod Impact			
-30°C	70	J/m	ASTM D256
23°C	90	J/m	ASTM D256
-30°C ¹⁰	8.0	kJ/m ²	ISO 180/1A
23°C ¹¹	15	kJ/m ²	ISO 180/1A
Instrumented Dart Impact (23°C, Total Energy)	10.0	J	ASTM D3763
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
0.45 MPa, Unannealed, 3.20 mm	185	°C	ASTM D648
0.45 MPa, Unannealed, 64.0 mm Span ¹²	190	°C	ISO 75-2/Bf
Vicat Softening Temperature			
--	192	°C	ASTM D1525 ¹³
--	198	°C	ISO 306/B50
--	200	°C	ISO 306/B120
CLTE			
Flow : -40 to 60°C	5.5E-5	cm/cm/°C	ASTM E831
Flow : 23 to 60°C	7.0E-5	cm/cm/°C	ISO 11359-2
Transverse : -40 to 60°C	6.0E-5	cm/cm/°C	ASTM E831
Transverse : 23 to 60°C	7.5E-5	cm/cm/°C	ISO 11359-2
Injection	Nominal Value	Unit	
Drying Temperature	100 to 110	°C	
Drying Time	2.0 to 3.0	hr	
Suggested Max Moisture	0.020	%	
Hopper Temperature	80.0 to 100	°C	
Rear Temperature	260 to 280	°C	
Middle Temperature	280 to 300	°C	
Front Temperature	300 to 320	°C	
Nozzle Temperature	280 to 300	°C	
Processing (Melt) Temp	300 to 320	°C	
Mold Temperature	100 to 120	°C	
NOTE			
1.	50 mm/min		
2.	Type I, 50 mm/min		
3.	Type I, 50 mm/min		
4.	Type I, 50 mm/min		
5.	Type I, 50 mm/min		
6.	1.3 mm/min		
7.	2.0 mm/min		
8.	1.3 mm/min		
9.	80*10*4 sp=62mm		
10.	80*10*4		

11.	80*10*4
12.	80*10*4 mm
13.	Rate B (120°C/h), Loading 2 (50 N)

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