

NORYL GTX™ GTX951W resin

Polyphenylene Ether + PS + Nylon

SABIC Innovative Plastics Asia Pacific

Message:

A new high flow GTX designed for under-the-hood applications such as power distribution boxes, relay boxes and junction boxes. Developmental name EXNX0151.

General Information			
UL YellowCard	E121562-102315342		
Features	High liquidity		
Uses	Parts under the hood of a car		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.10	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR)			ASTM D1238
280°C/2.16 kg	23	g/10 min	ASTM D1238
280°C/5.0 kg	64	g/10 min	ASTM D1238
Molding Shrinkage			ASTM D955
Flow: 24 hours	1.4 - 1.7	%	ASTM D955
Transverse flow: 24 hours	1.2 - 1.5	%	ASTM D955
Water Absorption			ISO 62
23°C, 24 hr	2.0	%	ISO 62
23°C, 24 hr ¹	0.39	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus ²	2250	MPa	ASTM D638
Tensile Strength			
Yield ³	66.0	MPa	ASTM D638
Yield	66.0	MPa	ISO 527-2/50
Fracture ⁴	57.0	MPa	ASTM D638
Tensile Elongation			
Yield ⁵	5.0	%	ASTM D638
Fracture ⁶	55	%	ASTM D638
Fracture	51	%	ISO 527-2/50
Flexural Modulus			
100mm span ⁷	2550	MPa	ASTM D790
-- ⁸	2380	MPa	ISO 178
Flexural Stress			
--	98.0	MPa	ISO 178
Fracture, 100mm span ⁹	100	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method

Charpy Notched Impact Strength			ISO 179/2C
-20°C	11	kJ/m ²	ISO 179/2C
23°C	21	kJ/m ²	ISO 179/2C
Notched Izod Impact			
-30°C	100	J/m	ASTM D256
23°C	210	J/m	ASTM D256
-30°C ¹⁰	8.1	kJ/m ²	ISO 180/4A
23°C ¹¹	14	kJ/m ²	ISO 180/4A
Instrumented Dart Impact			ASTM D3763
-30°C, Energy at Peak Load	32.0	J	ASTM D3763
23°C, Energy at Peak Load	48.0	J	ASTM D3763
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
0.45 MPa, unannealed, 6.40mm	196	°C	ASTM D648
0.45 MPa, unannealed, 100 mm span ¹²	181	°C	ISO 75-2/Be
Linear thermal expansion coefficient			ASTM E831
Flow: -40 to 40°C	9.0E-5	cm/cm/°C	ASTM E831
Flow: 60 to 138°C	1.7E-4	cm/cm/°C	ASTM E831
Lateral: -40 to 40°C	8.5E-5	cm/cm/°C	ASTM E831
Horizontal: 60 to 138°C	1.5E-4	cm/cm/°C	ASTM E831
Electrical	Nominal Value	Unit	Test Method
Dielectric Strength (1.60 mm, in Oil)	22	kV/mm	ASTM D149
Dissipation Factor (1 MHz)	0.017		ASTM D150
Injection	Nominal Value	Unit	
Drying Temperature	93.3 - 107	°C	
Drying Time	3.0 - 4.0	hr	
Drying Time, Maximum	8.0	hr	
Suggested Max Moisture	0.070	%	
Suggested Shot Size	30 - 50	%	
Rear Temperature	254 - 293	°C	
Middle Temperature	260 - 293	°C	
Front Temperature	266 - 293	°C	
Nozzle Temperature	271 - 293	°C	
Processing (Melt) Temp	271 - 293	°C	
Mold Temperature	65.6 - 93.3	°C	
Back Pressure	0.345 - 1.38	MPa	
Screw Speed	20 - 100	rpm	
Vent Depth	0.013 - 0.038	mm	
Injection instructions			
Minimum Moisture Content: .02 %			
NOTE			
1.	50% RH		

2.	50 mm/min
3.	Type 1, 50mm/min
4.	Type 1, 50mm/min
5.	Type 1, 50mm/min
6.	Type 1, 50mm/min
7.	2.6 mm/min
8.	2.0 mm/min
9.	2.6 mm/min
10.	63.5*12.7*3.2
11.	63.5*12.7*3.2
12.	120*10*4 mm

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Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

