

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	E207780-102315341		
Features	High Flow		
Uses	Automotive Applications		
	Automotive Under the Hood		
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	26	g/10 min	
280°C/5.0 kg	67	g/10 min	
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ¹ (Yield)	65.0	MPa	ASTM D638
Tensile Elongation ² (Break)	66	%	ASTM D638
Flexural Strength ³ (Break, 100 mm Span)	93.0	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			ASTM D256
-30°C	93	J/m	
23°C	240	J/m	
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (0.45 MPa, Unannealed, 6.40 mm)	195	°C	ASTM D648
CLTE			ASTM E831
Flow : -40 to 40°C	9.0E-5	cm/cm/°C	
Transverse : -40 to 40°C	8.5E-5	cm/cm/°C	
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	100 to 120	°C	
Drying Time	2.0 to 3.0	hr	
Suggested Max Moisture	0.070	%	
Hopper Temperature	60.0 to 80.0	°C	

Rear Temperature	260 to 280	°C
Middle Temperature	270 to 290	°C
Front Temperature	280 to 300	°C
Nozzle Temperature	270 to 300	°C
Processing (Melt) Temp	280 to 310	°C
Mold Temperature	80.0 to 120	°C

NOTE		
1.	Type I, 50 mm/min	
2.	Type I, 50 mm/min	
3.	2.6 mm/min	

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