

NORYL GTX™ GTX918W resin

Polyphenylene Ether + PS + Nylon

SABIC Innovative Plastics

Message:

High flow NORYL GTX resin for under-the-hood and electrical applications requiring retention of properties under thermal load

General Information			
Features	High liquidity		
Uses	Parts under the hood of a car		
	Automotive Electronics		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.09	g/cm ³	ASTM D792
Molding Shrinkage			Internal method
Flow: 3.20mm	1.3 - 1.6	%	Internal method
Transverse flow: 3.20mm	1.0 - 1.3	%	Internal method
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ¹ (Yield)	62.1	MPa	ASTM D638
Tensile Elongation ² (Break)	53	%	ASTM D638
Flexural Modulus ³ (50.0 mm Span)	2360	MPa	ASTM D790
Flexural Strength ⁴ (Yield, 50.0 mm Span)	98.6	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C)	200	J/m	ASTM D256
Instrumented Dart Impact (23°C, Energy at Peak Load)	40.7	J	ASTM D3763
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, unannealed, 3.20mm	189	°C	ASTM D648
1.8 MPa, unannealed, 3.20mm	149	°C	ASTM D648
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: 0.02 %

NOTE

- | | |
|----|------------------|
| 1. | Type 1, 50mm/min |
| 2. | Type 1, 50mm/min |
| 3. | 1.3 mm/min |
| 4. | 1.3 mm/min |

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