

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
Multi-Point Data	Coefficient of Thermal Expansion vs. Temperature (ASTM E831)
	Flexural DMA (ASTM D4065)
	Instrumented Impact (Energy) (ASTM D3763)
	Instrumented Impact (Load) (ASTM D3763)
	Pressure-Volume-Temperature (PVT - Zoller Method)
	Shear DMA (ASTM D4065)
	Specific Heat vs. Temperature (ASTM D3417)
	Tensile Creep (ASTM D2990)
	Tensile Fatigue
	Tensile Stress vs. Strain (ASTM D638)
	Thermal Conductivity vs. Temperature (ASTM E1530)
	Viscosity vs. Shear Rate (ASTM D3835)

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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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



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