

NORYL GTX™ GTX910 resin

Polyphenylene Ether + PS + Nylon

SABIC Innovative Plastics

Message:

Unfilled grade for automotive on-line painted components. Dimensional stability. Excellent chemical resistance. Class A surface appearance.

General Information			
Features	Good dimensional stability		
	Good chemical resistance		
Uses	Application in Automobile Field		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity			ASTM D792
--	1.10	g/cm ³	ASTM D792
--	1.11	g/cm ³	ASTM D792
Molding Shrinkage			
Flow: 130°C, 1 hour	1.6 - 1.8	%	ASTM D955
Flow: 3.20mm	1.1 - 1.3	%	Internal method
Transverse flow: 3.20mm	1.0 - 1.2	%	Internal method
Water Absorption			
24 hr, 50% RH	0.50	%	ASTM D570
Balance, 50% RH	1.0	%	ASTM D570
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	116		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ¹			ASTM D638
Yield	59.3	MPa	ASTM D638
Fracture	55.2	MPa	ASTM D638
Tensile Elongation ² (Break)	60	%	ASTM D638
Flexural Modulus ³ (100 mm Span)	2250	MPa	ASTM D790
Flexural Strength ⁴ (Yield, 100 mm Span)	95.8	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			ASTM D256
-30°C	130	J/m	ASTM D256
23°C	240	J/m	ASTM D256
Instrumented Dart Impact			ASTM D3763
-30°C, Energy at Peak Load	39.5	J	ASTM D3763
23°C, Energy at Peak Load	50.8	J	ASTM D3763
Thermal	Nominal Value	Unit	Test Method

Deflection Temperature Under Load			ASTM D648
0.45 MPa, unannealed, 6.40mm	193	°C	ASTM D648
1.8 MPa, unannealed, 6.40mm	143	°C	ASTM D648
Vicat Softening Temperature	232	°C	ASTM D1525 ⁵
Linear thermal expansion coefficient			ASTM E831
Flow: -40 to 95°C	9.0E-5	cm/cm/°C	ASTM E831
Flow: 60 to 138°C	1.3E-4	cm/cm/°C	ASTM E831
Lateral: -40 to 95°C	9.0E-5	cm/cm/°C	ASTM E831
Horizontal: 60 to 138°C	1.3E-4	cm/cm/°C	ASTM E831
RTI Elec	50.0	°C	UL 746
RTI Imp	50.0	°C	UL 746
RTI	50.0	°C	UL 746
Electrical	Nominal Value		Test Method
Arc Resistance ⁶	PLC 7		ASTM D495
Comparative Tracking Index (CTI)	PLC 1		UL 746
High Amp Arc Ignition (HAI)	PLC 0		UL 746
High Voltage Arc Tracking Rate (HVTR)	PLC 4		UL 746
Hot-wire Ignition (HWI)	PLC 3		UL 746
Flammability	Nominal Value		Test Method
Flame Rating (1.50 mm)	HB		UL 94
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	266 - 304	°C	
Middle Temperature	271 - 304	°C	
Front Temperature	277 - 304	°C	
Nozzle Temperature	282 - 304	°C	
Processing (Melt) Temp	282 - 304	°C	
Mold Temperature	76.7 - 121	°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.	2.6 mm/min		
4.	2.6 mm/min		

5.	标准 B (120°C/h), 载荷2 (50N)
6.	Tungsten electrode

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Recommended distributors for this material

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