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	
UL YellowCard	E121562-220766
Features	Good dimensional stability Good chemical resistance
Uses	Application in Automobile Field
Processing Method	Injection molding
Multi-Point Data	Coefficient of Thermal Expansion vs. Temperature (ASTM E831) Flexural DMA (ASTM D4065) 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			ASTM D792
--	1.10	g/cm³	ASTM D792
--	1.11	g/cm³	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			ASTM D570
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

Recommended distributors for this material

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