

NORYL GTX™ GTX810 resin

Polyphenylene Ether + PS + Nylon

SABIC Innovative Plastics

Message:

10% Glass Reinforced PPE+PA Alloy.

General Information	
UL YellowCard	E121562-101009449
Filler / Reinforcement	Glass fiber reinforced material, 10% filler by weight
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)
	Specific Heat vs. Temperature (ASTM D3417)
	Tensile Creep (ASTM D2990)
	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	1.16	g/cm ³	ASTM D792
Molding Shrinkage			Internal method
Flow: 3.20mm	0.60 - 0.80	%	Internal method
Transverse flow: 3.20mm	0.65 - 0.85	%	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)	119		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ¹			ASTM D638
Yield	89.6	MPa	ASTM D638
Fracture	88.9	MPa	ASTM D638
Tensile Elongation ² (Break)	10	%	ASTM D638
Flexural Modulus ³ (100 mm Span)	3960	MPa	ASTM D790
Flexural Strength ⁴ (Yield, 100 mm Span)	155	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			ASTM D256
-30°C	53	J/m	ASTM D256
23°C	80	J/m	ASTM D256

Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, unannealed, 6.40mm	245	°C	ASTM D648
1.8 MPa, unannealed, 6.40mm	210	°C	ASTM D648
Vicat Softening Temperature	241	°C	ASTM D1525 ⁵
CLTE - Flow (-20 to 150°C)	4.0E-5 - 5.0E-5	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 6	ASTM D495	
Comparative Tracking Index (CTI)	PLC 3	UL 746	
High Amp Arc Ignition (HAI)	PLC 0	UL 746	
High Voltage Arc Tracking Rate (HVTR)	PLC 3	UL 746	
Hot-wire Ignition (HWI)	PLC 0	UL 746	
Flammability	Nominal Value	Test Method	
Flame Rating (1.47 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, 5.0 mm/min		
2.	5.0 mm/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

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

