

NORYL GTX™ GTX830 resin

Polyphenylene Ether + PS + Nylon

SABIC Innovative Plastics

Message:

30% Glass Reinforced PPE+PA Alloy.

General Information	
UL YellowCard	E121562-220762
Filler / Reinforcement	Glass fiber reinforced material, 30% filler by weight
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	1.33	g/cm ³	ASTM D792
Molding Shrinkage			Internal method
Flow: 3.20mm	0.20 - 0.30	%	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)	120		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ¹			ASTM D638
Yield	152	MPa	ASTM D638
Fracture	159	MPa	ASTM D638
Tensile Elongation ² (Break)	7.0	%	ASTM D638
Flexural Modulus ³ (100 mm Span)	8580	MPa	ASTM D790
Flexural Strength ⁴ (Yield, 100 mm Span)	248	MPa	ASTM D790

Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			ASTM D256
-30°C	80	J/m	ASTM D256
23°C	110	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, unannealed, 6.40mm	254	°C	ASTM D648
1.8 MPa, unannealed, 6.40mm	241	°C	ASTM D648
Vicat Softening Temperature	249	°C	ASTM D1525 ⁵
CLTE - Flow (-20 to 150°C)	2.0E-5 - 3.1E-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 2		UL 746
High Amp Arc Ignition (HAI)	PLC 2		UL 746
High Voltage Arc Tracking Rate (HVTR)	PLC 1		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

The information and data on this page are provided by manufacturers and document providers. SHANGHAI SUSHENG assumes no legal liability. It is strongly recommended to verify all technical data with material suppliers before final material selection. All rights belong to the original authors. If any infringement occurs, please contact us immediately.

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

