

NORYL GTX™ GTX830 resin

Polyphenylene Ether + PS + Nylon

SABIC Innovative Plastics

Message:

GR 30%. Highest stiffness of 1200000 psi (8200 MPa) flexural modulus. Excellent chemical and high heat resistance. Application: under the bonnet.

General Information			
Filler / Reinforcement	Glass fiber reinforced material, 30% filler by weight		
Features	Rigidity, high		
	Good chemical resistance		
	Heat resistance, high		
Uses	Parts under the hood of a car		
Processing Method	Injection molding		
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.	Type 1, 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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