

NORYL GTX™ GTX810 resin

Polyphenylene Ether + PS + Nylon

SABIC Innovative Plastics

Message:

NORYL GTX810 is a 10% glass reinforced grade with excellent chemical resistance in combination with high stiffness and high heat resistance.

General Information			
UL YellowCard	E45329-101009462		
Filler / Reinforcement	Glass fiber reinforced material, 10% filler by weight		
Features	Rigidity, high		
	Good chemical resistance		
	Heat resistance, high		
RoHS Compliance	RoHS compliance		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Density	1.16	g/cm ³	ISO 1183
Melt Volume-Flow Rate (MVR) (280°C/5.0 kg)	8.00	cm ³ /10min	ISO 1133
Molding Shrinkage - Flow ¹	0.60 - 1.0	%	Internal method
Water Absorption			ISO 62
Saturated, 23°C	3.3	%	ISO 62
Equilibrium, 23°C, 50% RH	1.1	%	ISO 62
Hardness	Nominal Value	Unit	Test Method
Ball Indentation Hardness (H 358/30)	90.0	MPa	ISO 2039-1
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	3200	MPa	ISO 527-2/1
Tensile Stress			ISO 527-2/5
Yield	65.0	MPa	ISO 527-2/5
Fracture	65.0	MPa	ISO 527-2/5
Tensile Strain			ISO 527-2/5
Yield	3.5	%	ISO 527-2/5
Fracture	6.0	%	ISO 527-2/5
Flexural Modulus ²	2900	MPa	ISO 178
Flexural Stress	105	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179/2C
-20°C	4.0	kJ/m ²	ISO 179/2C
23°C	6.0	kJ/m ²	ISO 179/2C
Charpy Unnotched Impact Strength ³			ISO 179/1eU

-30°C	40	kJ/m ²	ISO 179/1eU
23°C	60	kJ/m ²	ISO 179/1eU
Unnotched Izod Impact Strength ⁴			ISO 180/1U
-30°C	40	kJ/m ²	ISO 180/1U
23°C	50	kJ/m ²	ISO 180/1U
Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature			
--	200	°C	ISO 306/B50
--	205	°C	ISO 306/B120
Ball Pressure Test (125°C)	Pass		IEC 60695-10-2
Linear thermal expansion coefficient			ISO 11359-2
Flow: 23 to 60°C	6.0E-5	cm/cm/°C	ISO 11359-2
Lateral: 23 to 60°C	8.0E-5	cm/cm/°C	ISO 11359-2
Thermal Conductivity	0.24	W/m/K	ISO 8302
RTI Elec	120	°C	UL 746
RTI Imp	60.0	°C	UL 746
RTI	125	°C	UL 746
Flammability	Nominal Value	Unit	Test Method
Flame Rating			UL 94
1.50 mm	HB		UL 94
3.00 mm	HB		UL 94
Oxygen Index	26	%	ISO 4589-2
Injection	Nominal Value	Unit	
Drying Temperature	100 - 110	°C	
Drying Time	2.0 - 3.0	hr	
Suggested Max Moisture	0.070	%	
Hopper Temperature	60.0 - 80.0	°C	
Rear Temperature	260 - 280	°C	
Middle Temperature	270 - 290	°C	
Front Temperature	280 - 300	°C	
Nozzle Temperature	270 - 290	°C	
Processing (Melt) Temp	280 - 300	°C	
Mold Temperature	80.0 - 100	°C	
Injection instructions			
Minimum Moisture Content: 0.02 %			
NOTE			
1.	Tensile Bar		
2.	2.0 mm/min		
3.	80*10*4 sp=62mm		
4.	80*10*4		

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