

NORYL GTX™ GTX902 resin

Polyphenylene Ether + PS + Nylon

SABIC Innovative Plastics

Message:

Unreinforced. Excellent chemical resistance and paintability. 312F (155C) HDT.

General Information			
UL YellowCard	E121562-220764		
Features	Sprayable		
	Good chemical resistance		
Processing Method	Injection molding		
Multi-Point Data	Coefficient of Thermal Expansion vs. Temperature (ASTM E831)		
	Compressive Stress vs. Strain (ASTM D695)		
	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	1.08	g/cm ³	ASTM D792
Molding Shrinkage			
Flow: 130°C, 1 hour	1.1 - 1.5	%	ASTM D955
Flow: 3.20mm	0.90 - 1.2	%	Internal method
Transverse flow: 3.20mm	0.80 - 1.1	%	Internal method
Water Absorption			ASTM D570
24 hr	0.40	%	ASTM D570
Equilibrium, 23°C	3.6	%	ASTM D570
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	118		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ¹			ASTM D638
Yield	60.0	MPa	ASTM D638

Fracture	56.5	MPa	ASTM D638
Tensile Elongation ²			ASTM D638
Yield	9.0	%	ASTM D638
Fracture	52	%	ASTM D638
Flexural Modulus ³ (100 mm Span)	2240	MPa	ASTM D790
Flexural Strength ⁴ (Yield, 100 mm Span)	89.6	MPa	ASTM D790
Taber Abrasion Resistance (1000 Cycles, 1000 g, CS-17 Wheel)	19.0	mg	ASTM D1044
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			ASTM D256
-40°C	53	J/m	ASTM D256
-30°C	120	J/m	ASTM D256
23°C	270	J/m	ASTM D256
Unnotched Izod Impact			ASTM D4812
-40°C	3200	J/m	ASTM D4812
-30°C	3200	J/m	ASTM D4812
23°C	3200	J/m	ASTM D4812
Instrumented Dart Impact			ASTM D3763
-40°C, Energy at Peak Load	19.7	J	ASTM D3763
-30°C, Energy at Peak Load	36.0	J	ASTM D3763
23°C, Energy at Peak Load	46.1	J	ASTM D3763
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, unannealed, 6.40mm	156	°C	ASTM D648
1.8 MPa, unannealed, 6.40mm	128	°C	ASTM D648
Vicat Softening Temperature			
--	233	°C	ASTM D1525 ⁵
--	232	°C	ASTM D1525 ⁶
CLTE - Flow (-20 to 150°C)	9.0E-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
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	260 - 299	°C	
Middle Temperature	266 - 299	°C	

Front Temperature	271 - 299	°C
Nozzle Temperature	277 - 299	°C
Processing (Melt) Temp	277 - 299	°C
Mold Temperature	65.6 - 93.3	°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. | 速率 A (50°C/h), 载荷2 (50N) |

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