

NORYL GTX™ GTX902 resin

Polyphenylene Ether + PS + Nylon

SABIC Innovative Plastics

Message:

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

General Information			
Features	Sprayable		
	Good chemical resistance		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.08	g/cm³	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
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)		

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