

NORYL GTX™ GTX934 resin

Polyphenylene Ether + PS + Nylon

SABIC Innovative Plastics Asia Pacific

Message:

NORYL GTX934 is an unfilled GTX grade with improved processability and heat ageing performance.

General Information			
Features	Workability, good		
	Good heat aging resistance		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.09	g/cm³	ASTM D792, ISO 1183
Melt Mass-Flow Rate (MFR) (280°C/5.0 kg)	13	g/10 min	ASTM D1238
Melt Volume-Flow Rate (MVR) (280°C/5.0 kg)	13.0	cm³/10min	ISO 1133
Molding Shrinkage			Internal method
Flow ¹	1.6 - 2.0	%	Internal method
Flow: 3.20mm	1.4 - 1.7	%	Internal method
Transverse flow: 3.20mm	1.1 - 1.4	%	Internal method
Water Absorption			ISO 62
Saturated, 23°C	3.5	%	ISO 62
Equilibrium, 23°C, 50% RH	1.2	%	ISO 62
Hardness	Nominal Value	Unit	Test Method
Ball Indentation Hardness (H 358/30)	85.0	MPa	ISO 2039-1
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
-- ²	2300	MPa	ASTM D638
--	2400	MPa	ISO 527-2/1
Tensile Strength			
Yield ³	65.0	MPa	ASTM D638
Yield	65.0	MPa	ISO 527-2/50
Fracture ⁴	55.0	MPa	ASTM D638
Fracture	55.0	MPa	ISO 527-2/50
Tensile Elongation			
Yield ⁵	5.0	%	ASTM D638
Yield	4.5	%	ISO 527-2/50
Fracture ⁶	60	%	ASTM D638
Fracture	25	%	ISO 527-2/50
Flexural Modulus			

50.0mm span ⁷	2350	MPa	ASTM D790
-- ⁸	2200	MPa	ISO 178
Flexural Stress			
--	90.0	MPa	ISO 178
Yield, 50.0mm span ⁹	95.0	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength ¹⁰			ISO 179/1eA
-30°C	10	kJ/m ²	ISO 179/1eA
23°C	20	kJ/m ²	ISO 179/1eA
Notched Izod Impact			
-30°C	100	J/m	ASTM D256
23°C	220	J/m	ASTM D256
-30°C ¹¹	10	kJ/m ²	ISO 180/1A
23°C ¹²	20	kJ/m ²	ISO 180/1A
Instrumented Dart Impact (23°C, Total Energy)	60.0	J	ASTM D3763
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
0.45 MPa, unannealed, 3.20mm	190	°C	ASTM D648
0.45 MPa, unannealed, 100 mm span ¹³	190	°C	ISO 75-2/Be
Vicat Softening Temperature			
--	205	°C	ASTM D1525, ISO 306/B120 11 ¹⁴
--	250	°C	ISO 306/A50
--	200	°C	ISO 306/B50
Ball Pressure Test (125°C)	Pass		IEC 60695-10-2
Linear thermal expansion coefficient			
Flow: -40 to 40°C	7.5E-5	cm/cm/°C	ASTM E831
Flow: 23 to 60°C	8.0E-5	cm/cm/°C	ISO 11359-2
Lateral: -40 to 40°C	8.5E-5	cm/cm/°C	ASTM E831
Lateral: 23 to 60°C	7.0E-5	cm/cm/°C	ISO 11359-2
Thermal Conductivity	0.23	W/m/K	ISO 8302
Injection	Nominal Value	Unit	
Drying Temperature	100 - 120	°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	280 - 300	°C	
Front Temperature	290 - 320	°C	
Nozzle Temperature	280 - 310	°C	
Processing (Melt) Temp	290 - 320	°C	
Mold Temperature	80.0 - 120	°C	

Injection instructions

Minimum Moisture Content: 0.02 %

NOTE

1.	Tensile Bar
2.	50 mm/min
3.	Type 1, 50mm/min
4.	Type 1, 50mm/min
5.	Type 1, 50mm/min
6.	Type 1, 50mm/min
7.	1.3 mm/min
8.	2.0 mm/min
9.	1.3 mm/min
10.	80*10*4 sp=62mm
11.	80*10*4
12.	80*10*4
13.	120*10*4 mm
14.	标准 B (120°C/h), 载荷2 (50N)

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