

NORYL GTX™ GTX6203 resin

Polyphenylene Ether + PS + Nylon

SABIC Innovative Plastics Asia Pacific

Message:

NORYL GTX6203 is a 20% talc filled material with superior dimensional stability, excellent processability and surface appearance.

General Information			
Filler / Reinforcement	Talc filler, 20% filler by weight		
Features	Good dimensional stability		
	Workability, good		
	Excellent appearance		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity			
--	1.25	g/cm ³	ASTM D792
--	1.24	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (280°C/5.0 kg)	20	g/10 min	ASTM D1238
Melt Volume-Flow Rate (MVR) (280°C/5.0 kg)	20.0	cm ³ /10min	ISO 1133
Molding Shrinkage			Internal method
Flow: 3.20mm	0.60 - 0.90	%	Internal method
Transverse flow: 3.20mm	0.60 - 0.90	%	Internal method
Water Absorption			ISO 62
Saturated, 23°C	3.2	%	ISO 62
Equilibrium, 23°C, 50% RH	1.1	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
-- ¹	4600	MPa	ASTM D638
--	4900	MPa	ISO 527-2/1
Tensile Strength			
Yield ²	65.0	MPa	ASTM D638
Yield	60.0	MPa	ISO 527-2/50
Fracture ³	65.0	MPa	ASTM D638
Fracture	60.0	MPa	ISO 527-2/50
Tensile Elongation			
Yield ⁴	3.0	%	ASTM D638
Yield	2.5	%	ISO 527-2/5
Fracture ⁵	3.0	%	ASTM D638
Fracture	10	%	ISO 527-2/5, ISO 527-2/50

Flexural Modulus			
50.0mm span ⁶	3800	MPa	ASTM D790
-- ⁷	4000	MPa	ISO 178
Flexural Stress			
--	90.0	MPa	ISO 178
Yield, 50.0mm span ⁸	100	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength ⁹ (23°C)	5.0	kJ/m ²	ISO 179/1eA
Notched Izod Impact			
-30°C	50	J/m	ASTM D256
23°C	60	J/m	ASTM D256
-30°C ¹⁰	5.0	kJ/m ²	ISO 180/1A
23°C ¹¹	6.0	kJ/m ²	ISO 180/1A
Unnotched Izod Impact Strength ¹² (23°C)	50	kJ/m ²	ISO 180/1U
Instrumented Dart Impact (23°C, Total Energy)	10.0	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			
--	185	°C	ASTM D1525 ¹⁴
--	190	°C	ISO 306/B50, ISO 306/B120
Ball Pressure Test (125°C)	Pass		IEC 60695-10-2
Linear thermal expansion coefficient			
Flow: -40 to 40°C	6.0E-5	cm/cm/°C	ASTM E831
Flow: 23 to 80°C	7.5E-5	cm/cm/°C	ISO 11359-2
Lateral: -40 to 40°C	7.8E-5	cm/cm/°C	ASTM E831
Lateral: 23 to 80°C	9.0E-5	cm/cm/°C	ISO 11359-2
Thermal Conductivity	0.26	W/m/K	ISO 8302
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.	5.0 mm/min
2.	Type 1, 5.0 mm/min
3.	Type 1, 5.0 mm/min
4.	Type 1, 5.0 mm/min
5.	Type 1, 5.0 mm/min
6.	1.3 mm/min
7.	2.0 mm/min
8.	1.3 mm/min
9.	80*10*4 sp=62mm
10.	80*10*4
11.	80*10*4
12.	80*10*4
13.	120*10*4 mm
14.	标准 B (120°C/h), 载荷2 (50N)

The information and data on this page are provided by manufacturers and document providers. SHANGHAI SUSHENG assumes no legal liability. It is strongly recommended to verify all technical data with material suppliers before final material selection. All rights belong to the original authors. If any infringement occurs, please contact us immediately.

Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

