

NORYL GTX™ GTX964 resin

Polyphenylene Ether + PS + Nylon

SABIC Innovative Plastics Europe

Message:

NORYL GTX964 is an unfilled impact modified material with optimised processability.

General Information			
Additive	Impact modifier		
Features	Impact modification		
	Workability, good		
RoHS Compliance	RoHS compliance		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Density	1.08	g/cm ³	ISO 1183
Melt Volume-Flow Rate (MVR) (280°C/2.16 kg)	7.00	cm ³ /10min	ISO 1133
Molding Shrinkage - Flow ¹	1.4 - 1.8	%	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)	80.0	MPa	ISO 2039-1
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	2000	MPa	ISO 527-2/1
Tensile Stress			ISO 527-2/50
Yield	50.0	MPa	ISO 527-2/50
Fracture	45.0	MPa	ISO 527-2/50
Tensile Strain			ISO 527-2/50
Yield	4.0	%	ISO 527-2/50
Fracture	50	%	ISO 527-2/50
Flexural Modulus ²	1800	MPa	ISO 178
Flexural Stress	70.0	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength ³			ISO 179/1eA
-30°C	20	kJ/m ²	ISO 179/1eA
23°C	45	kJ/m ²	ISO 179/1eA
Notched Izod Impact ⁴			ISO 180/1A
-30°C	20	kJ/m ²	ISO 180/1A
23°C	50	kJ/m ²	ISO 180/1A

Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature ⁵ (0.45 MPa, Unannealed, 100 mm Span)	175	°C	ISO 75-2/Be
Vicat Softening Temperature			
--	240	°C	ISO 306/A50
--	175	°C	ISO 306/B50
--	180	°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	9.0E-5	cm/cm/°C	ISO 11359-2
Lateral: 23 to 60°C	9.0E-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. 2.0 mm/min
3. 80*10*4 sp=62mm
4. 80*10*4
5. 120*10*4 mm

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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



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