

NORYL GTX™ Resin GTX914 - Europe

Polyphenylene Ether + PS + PA

SABIC

PROSPECTOR®

www.ulprospector.com

Technical Data

Product Description

NORYL GTX™ 914 resin is a non-reinforced alloy of Polyphenylene Ether (PPE) + Polyamide (PA). This injection moldable grade exhibits an ideal combination of impact performance and dimensional stability at elevated temperatures along with excellent chemical resistance and processability. NORYL GTX914 resin may be an excellent candidate for various automotive applications such as tank flaps, exterior trim, and wheel covers.

General

Material Status	• Commercial: Active
Search for UL Yellow Card	• SABIC • NORYL GTX™ Resin
Availability	• Europe
Uses	• Automotive Exterior Parts • Automotive Interior Parts • Electrical/Electronic Applications • Electronic Displays
RoHS Compliance	• RoHS Compliant

Physical	Nominal Value Unit	Test Method
Density / Specific Gravity		
--	1.10 g/cm ³	ASTM D792
--	1.09 g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (280°C/5.0 kg)	12 g/10 min	ASTM D1238
Melt Volume-Flow Rate (MVR) (280°C/5.0 kg)	11 cm ³ /10min	ISO 1133
Molding Shrinkage		Internal Method
Flow ²	1.5 to 1.9 %	
Across Flow : 3.20 mm	1.1 to 1.4 %	
Flow : 3.20 mm	1.3 to 1.6 %	
Water Absorption		ISO 62
Saturation, 23°C	3.5 %	
Equilibrium, 23°C, 50% RH	1.2 %	

Mechanical	Nominal Value Unit	Test Method
Tensile Modulus		
-- ³	1950 MPa	ASTM D638
--	2100 MPa	ISO 527-2/1
Tensile Strength		
Yield ⁴	55.0 MPa	ASTM D638
Yield	55.0 MPa	ISO 527-2/50
Break ⁴	55.0 MPa	ASTM D638
Break	55.0 MPa	ISO 527-2/50
Tensile Elongation		
Yield ⁴	15 %	ASTM D638
Yield	7.5 %	ISO 527-2/50
Break ⁴	100 %	ASTM D638
Break	60 %	ISO 527-2/50
Flexural Modulus		
50.0 mm Span ⁵	1900 MPa	ASTM D790
-- ⁶	2000 MPa	ISO 178
Flexural Stress		
-- ^{6,7}	80.0 MPa	ISO 178
Yield, 50.0 mm Span ⁵	80.0 MPa	ASTM D790
Taber Abrasion Resistance		Internal Method
1000 g, CS-17 Wheel	15.0 mg	



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Impact	Nominal Value Unit	Test Method
Charpy Notched Impact Strength ⁸		
-30°C	15 kJ/m ²	ISO 179/1eA
23°C	30 kJ/m ²	ISO 179/1eA ISO 179/2C
Notched Izod Impact		
-30°C	120 J/m	ASTM D256
23°C	280 J/m	ASTM D256
-30°C ⁹	15 kJ/m ²	ISO 180/1A
23°C ⁹	30 kJ/m ²	ISO 180/1A
Instrumented Dart Impact		ASTM D3763
23°C, Total Energy	60.0 J	
Hardness	Nominal Value Unit	Test Method
Ball Indentation Hardness (H 358/30)	90.0 MPa	ISO 2039-1
Thermal	Nominal Value Unit	Test Method
Deflection Temperature Under Load		
0.45 MPa, Unannealed, 3.20 mm	180 °C	ASTM D648
0.45 MPa, Unannealed, 4.00 mm, 100 mm Span ¹⁰	180 °C	ISO 75-2/Be
Vicat Softening Temperature		
--	195 °C	ASTM D1525 ¹¹ ISO 306/B120 ¹¹
--	190 °C	ISO 306/B50
--	245 °C	ISO 306/A50
Ball Pressure Test (123 to 127°C)	Pass	IEC 60695-10-2
CLTE		
Flow : -40 to 40°C	9.0E-5 cm/cm/°C	ASTM E831
Flow : 23 to 60°C	9.0E-5 cm/cm/°C	ISO 11359-2
Transverse : -40 to 40°C	9.5E-5 cm/cm/°C	ASTM E831
Transverse : 23 to 60°C	9.0E-5 cm/cm/°C	ISO 11359-2
Thermal Conductivity	0.23 W/m/K	ISO 8302
Electrical	Nominal Value Unit	Test Method
Electric Strength (3.20 mm, in Oil)	20 kV/mm	IEC 60243-1
Relative Permittivity		IEC 60250
50 Hz	3.50	
60 Hz	3.50	
1 MHz	2.70	
Dissipation Factor		IEC 60250
50 Hz	0.072	
60 Hz	0.072	
1 MHz	0.024	
Comparative Tracking Index	600 V	IEC 60112
Flammability	Nominal Value Unit	Test Method
Flame Rating (1.6 mm, Testing by SABIC)	HB	UL 94
Injection	Nominal Value Unit	
Drying Temperature	100 to 120 °C	
Drying Time	2.0 to 3.0 hr	
Suggested Max Moisture	0.070 %	
Hopper Temperature	60 to 80 °C	
Rear Temperature	260 to 280 °C	
Middle Temperature	270 to 290 °C	
Front Temperature	280 to 300 °C	
Nozzle Temperature	270 to 300 °C	



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Injection	Nominal Value Unit
Processing (Melt) Temp	280 to 310 °C
Mold Temperature	80 to 120 °C

Notes

¹ Typical properties: these are not to be construed as specifications.

² Tensile Bar

³ 50 mm/min

⁴ Type I, 50 mm/min

⁵ 1.3 mm/min

⁶ 2.0 mm/min

⁷ at Yield

⁸ 80*10*4 sp=62mm

⁹ 80*10*4 mm

¹⁰ 120*10*4 mm

¹¹ Rate A (50°C/h), Loading 2 (50 N)



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Where to Buy

Supplier

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Web: <http://www.sabic.com/>

Distributor

3Polymer (Guangzhou) Chemical Technology Co., Ltd.

Telephone: +86-20-3466-7988

Web: <http://3polymer.com>

Availability: China

AECTRA

Telephone: +33-4-72-54-36-42

Web: <https://www.aectra.fr/>

Availability: Bulgaria, Romania

AGI-Augusto Guimarães & Irmão

Telephone: +351-22753-7400

Web: <https://www.agi.pt/en/>

Availability: Portugal

GRÄSSLIN

Telephone: +49-7721-4040-261

Web: <https://www.graesslin-kunststoffe.de>

Availability: Germany

Guzmán Polymers

Telephone: +34-963-992-400

Web: <https://www.guzmanglobal.com/en/productos/plastics/>

Availability: Italy, Spain, Turkey

Lenorplastics

Telephone: +41-61-706-11-11

Web: <https://www.lenorplastics.ch>

Availability: Switzerland

Plastoplan

Telephone: +43-1-25040-0

Web: <https://www.plastoplan.com/>

Availability: Austria, Czech Republic, Hungary, Poland, Slovakia

RESINEX Group

RESINEX is a Pan European distribution company. Contact RESINEX for availability of individual products by country.

Telephone: +32-14-672511

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Ultrapolymers

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Telephone: +32-11-57-95-57

Web: <http://www.ultrapolymers.com/>

Availability: Belgium, Netherlands, South Africa

