

NORYL™ Resin PX1134 - Europe

Polyphenylene Ether + PS

SABIC

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www.ulprospector.com

Technical Data

Product Description

NORYL PX1134 resin is a non-reinforced blend of polyphenylene ether (PPE) + polystyrene (PS). This impact modified, injection moldable grade was developed for automotive interior applications requiring Standard ECE Dashboard Impact Test. NORYL PX1134 resin offers high heat resistance, good impact resistance, low specific gravity, and dimensional stability. It is available only in a variety of colors.

General

Material Status	• Commercial: Active
Literature ¹	• Drones • NORYL Resin - Chemical Resistance Properties • SABIC NORYL Resin Injection Molding Processing Guide • SABIC-MOBILITY-ADAS CAMERA FLYER • SABIC-MOBILITY-ADAS LIDAR FLYER
Search for UL Yellow Card	• SABIC • NORYL™ Resin
Availability	• Europe
Additive	• Heat Stabilizer
Features	• Amorphous • Good Dimensional Stability • Good Impact Resistance • Heat Stabilized • Hydrolytically Stable • Low Moisture Absorption • Low Shrinkage • Low Specific Gravity • Low Warp
Uses	• Automotive Interior Parts • Wire & Cable Applications
Processing Method	• Injection Molding

Physical	Nominal Value Unit	Test Method
Density	1.06 g/cm ³	ISO 1183
Melt Volume-Flow Rate (MVR) (280°C/5.0 kg)	10 cm ³ /10min	ISO 1133
Molding Shrinkage - Flow ³	0.50 to 0.70 %	Internal Method
Water Absorption		ISO 62
Saturation, 23°C	0.14 %	
Equilibrium, 23°C, 50% RH	0.060 %	

Mechanical	Nominal Value Unit	Test Method
Tensile Modulus	2100 MPa	ISO 527-1/1
Tensile Stress		ISO 527-2/50
Yield	40.0 MPa	
Break	40.0 MPa	
Tensile Strain		ISO 527-2/50
Yield	3.0 %	
Break	40 %	
Flexural Modulus ⁴	1900 MPa	ISO 178
Flexural Stress ^{4, 5}	85.0 MPa	ISO 178
Taber Abrasion Resistance		Internal Method
1000 Cycles, 1000 g, CS-17 Wheel	65.0 mg	

Impact	Nominal Value Unit	Test Method
Charpy Notched Impact Strength ⁶		ISO 179/1eA
-30°C	14 kJ/m ²	
23°C	19 kJ/m ²	
Notched Izod Impact Strength ⁷		ISO 180/1A
-30°C	10 kJ/m ²	
23°C	18 kJ/m ²	

Hardness	Nominal Value Unit	Test Method
Ball Indentation Hardness (H 358/30)	80.0 MPa	ISO 2039-1



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Thermal	Nominal Value Unit	Test Method
Deflection Temperature Under Load ⁸		
0.45 MPa, Unannealed, 4.00 mm, 100 mm Span	120 °C	ISO 75-2/Be
1.8 MPa, Unannealed, 4.00 mm, 100 mm Span	105 °C	ISO 75-2/Ae
Vicat Softening Temperature		
--	125 °C	ISO 306/B120
--	115 °C	ISO 306/B50
--	130 °C	ISO 306/A50
Ball Pressure Test (73 to 77°C)	Pass	IEC 60695-10-2
CLTE		ISO 11359-2
Flow : 23 to 80°C	7.0E-5 cm/cm/°C	
Transverse : 23 to 80°C	9.0E-5 cm/cm/°C	
Thermal Conductivity	0.23 W/m/K	ISO 8302
Electrical	Nominal Value Unit	Test Method
Surface Resistivity	> 1.0E+15 ohms	IEC 60093
Volume Resistivity	1.0E+15 ohms·cm	IEC 60093
Electric Strength (3.20 mm, in Oil)	17 kV/mm	IEC 60243-1
Relative Permittivity		IEC 60250
50 Hz	2.70	
60 Hz	2.70	
1 MHz	2.60	
Dissipation Factor		IEC 60250
50 Hz	4.0E-4	
60 Hz	4.0E-4	
1 MHz	9.0E-4	
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	
Hopper Temperature	60 to 80 °C	
Rear Temperature	240 to 260 °C	
Middle Temperature	260 to 280 °C	
Front Temperature	280 to 300 °C	
Nozzle Temperature	260 to 280 °C	
Processing (Melt) Temp	280 to 300 °C	
Mold Temperature	80 to 120 °C	

Notes

¹ These links provide you with access to supplier literature. We work hard to keep them up to date; however you may find the most current literature from the supplier.

² Typical properties: these are not to be construed as specifications.

³ Tensile Bar

⁴ 2.0 mm/min

⁵ at Yield

⁶ 80*10*4 sp=62mm

⁷ 80*10*4 mm

⁸ 120*10*4 mm



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Where to Buy

Supplier

SABIC

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

Distributor

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, Slovakia

POLYMIX

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

Telephone: +33-3-8920-1380

Web: <http://www.polymix.eu/>

Availability: France

Ultrapolymers

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

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

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

Availability: Belgium, Netherlands, South Africa

