

NORYL PPX™ Resin PPX7115 - Europe

Polyphenylene Ether + PS + PP

SABIC

Technical Data

Product Description

NORYL PPX7115 resin is a non-reinforced alloy of polyphenylene ether (PPE) + polypropylene (PP). This injection moldable grade exhibits high modulus, high-temperature performance, excellent melt strength, impact resistance, hydrolytic and dimensional stability. NORYL PPX7115 resin is an excellent candidate for applications requiring high modulus and chemical resistance.

General

Material Status	• Commercial: Active		
Literature ¹	<ul style="list-style-type: none"> • NORYL Resin - Chemical Resistance Properties • SABIC NORYL Resin Injection Molding Processing Guide 		
Search for UL Yellow Card	<ul style="list-style-type: none"> • SABIC • NORYL PPX™ Resin 		
Availability	• Europe		
Features	<ul style="list-style-type: none"> • Chemical Resistant • Good Dimensional Stability • Good Strength • High Heat Resistance 	<ul style="list-style-type: none"> • High Impact Resistance • Hydrolytically Stable • Low Moisture Absorption • Low Shrinkage 	<ul style="list-style-type: none"> • Low Specific Gravity • Low Warp • UV Resistant
Uses	<ul style="list-style-type: none"> • Electric Vehicle Applications • Electrical/Electronic Applications 	<ul style="list-style-type: none"> • Energy Storage • Solar Applications 	
Processing Method	• Injection Molding		
Also Available In	• Asia Pacific	• Latin America	• North America

Physical	Nominal Value Unit	Test Method
Density	0.990 g/cm ³	ISO 1183
Melt Volume-Flow Rate (MVR) (260°C/5.0 kg)	12 cm ³ /10min	ISO 1133

Mechanical	Nominal Value Unit	Test Method
Tensile Modulus	1370 MPa	ISO 527-1/1
Tensile Stress		ISO 527-2/50
Yield	35.0 MPa	
Break	31.0 MPa	
Tensile Strain		ISO 527-2/50
Yield	5.0 %	
Break	75 %	
Flexural Modulus ³	1520 MPa	ISO 178
Flexural Stress ^{3, 4}	51.0 MPa	ISO 178

Impact	Nominal Value Unit	Test Method
Charpy Notched Impact Strength ⁵		ISO 179/1eA
-30°C	6.0 kJ/m ²	
23°C	37 kJ/m ²	
Charpy Unnotched Impact Strength ⁵		ISO 179/1eU
-30°C	No Break	
23°C	No Break	
Notched Izod Impact Strength ⁶		ISO 180/1A
-30°C	10 kJ/m ²	
23°C	36 kJ/m ²	
Unnotched Izod Impact Strength ⁶		ISO 180/1U
-30°C	No Break	
23°C	No Break	

Hardness	Nominal Value Unit	Test Method
Rockwell Hardness (R-Scale)	60	ISO 2039-2



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Thermal	Nominal Value Unit	Test Method
Deflection Temperature Under Load ⁷		
0.45 MPa, Unannealed, 4.00 mm, 100 mm Span	114 °C	ISO 75-2/Be
1.8 MPa, Unannealed, 4.00 mm, 100 mm Span	83.0 °C	ISO 75-2/Ae
Vicat Softening Temperature		
--	85.0 °C	ISO 306/B120
--	80.0 °C	ISO 306/B50

Injection	Nominal Value Unit
Drying Temperature	60 to 65 °C
Drying Time	2.0 to 4.0 hr
Suggested Max Moisture	0.020 %
Hopper Temperature	60 to 80 °C
Rear Temperature	225 to 275 °C
Middle Temperature	240 to 285 °C
Front Temperature	250 to 290 °C
Nozzle Temperature	260 to 290 °C
Processing (Melt) Temp	260 to 290 °C
Mold Temperature	40 to 60 °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 2.0 mm/min

⁴ at Yield

⁵ 80*10*4 sp=62mm

⁶ 80*10*4 mm

⁷ 120*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

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

