

**Product Texts**

NORYL™ PX1112 resin is a non-reinforced blend of polyphenylene ether (PPE) + high impact polystyrene (HIPS). This impact modified, injection moldable grade was developed for automotive body panel applications and meets the requirements of the Standard ECE Dashboard Impact Test. NORYL PX1112 resin offers high heat resistance, good impact resistance, low specific gravity, and dimensional stability.

Processing/Physical Characteristics	Value	Unit	Test Standard
<b>ISO Data</b>			
Melt volume-flow rate, MVR	6	cm <sup>3</sup> /10min	ISO 1133
Temperature	280	°C	-
Load	5	kg	-

Mechanical properties	Value	Unit	Test Standard
<b>ISO Data</b>			
Tensile Modulus	2100	MPa	ISO 527
Yield stress	40	MPa	ISO 527
Yield strain	3	%	ISO 527
Stress at break	40	MPa	ISO 527
Strain at break	30	%	ISO 527
Flexural modulus	1900	MPa	ISO 178
Charpy notched impact strength, +23°C	17	kJ/m <sup>2</sup>	ISO 179/1eA
Charpy notched impact strength, -30°C	10	kJ/m <sup>2</sup>	ISO 179/1eA
Izod notched impact strength, +23°C, 4mm	17	kJ/m <sup>2</sup>	ISO 180/1A
Izod notched impact strength, -30°C, 4mm	10	kJ/m <sup>2</sup>	ISO 180/1A
Ball indentation hardness	80	MPa	ISO 2039-1

Thermal properties	Value	Unit	Test Standard
<b>ISO Data</b>			
Vicat softening temperature, A	130	°C	ISO 306
Vicat softening temperature, B	120	°C	ISO 306
Vicat softening temperature, 120°C/h 50N	125	°C	ISO 306
Thermal Conductivity	0.23	W/(m K)	DIN 52616

Electrical properties	Value	Unit	Test Standard
<b>ISO Data</b>			
Relative permittivity, 1MHz	2.6	-	IEC 62631-2-1
Dissipation factor, 1MHz	10	E-4	IEC 62631-2-1
Volume resistivity	1E13	Ohm*m	IEC 62631-3-1
Surface resistivity	>1E15	Ohm	IEC 62631-3-2

Other properties	Value	Unit	Test Standard
Water absorption	0.3	%	Sim. to ISO 62
Humidity absorption	0.06	%	Sim. to ISO 62
Density	1060	kg/m <sup>3</sup>	ISO 1183

Processing Recommendation Injection Molding	Value	Unit	Test Standard
Pre-drying - Temperature	100 - 120	°C	-
Pre-drying - Time	2 - 3	h	-
Melt temperature	280 - 300	°C	-
Mold temperature	80 - 120	°C	-
Feed temperature	60 - 80	°C	-
Zone 1	240 - 260	°C	-
Zone 2	260 - 280	°C	-
Zone 3	280 - 300	°C	-

**Characteristics**

## **NORYL™ Resin PX1112 - Europe**

(PPE+PS)

Saudi Basic Industries Corporation (SABIC)

### **Processing**

Injection Molding

### **Applications**

Automotive

### **Special Characteristics**

High impact or impact modified

### **Regional Availability**

Europe