

Product Texts

NORYL PX1630 Polyphenylene Oxide (PPO) + Polystyrene (PS) resin is a 30 % Glass Reinforced, injection moldable grade with improved hydrolytic stability; this grade has been developed for water management applications. NORYL PX1630 has been certified for potable water applications up to 85C in Europe and North America in limited colours.

UL Yellow Card Link [F45329-103460844](https://www.ul.com/yellowcard/F45329-103460844)

| Processing/Physical Characteristics | Value | Unit | Test Standard |
|-------------------------------------|-------|------------------------|---------------|
| ISO Data | | | |
| Melt volume-flow rate, MVR | 16 | cm ³ /10min | ISO 1133 |
| Temperature | 300 | °C | - |
| Load | 10 | kg | - |

| Mechanical properties | Value | Unit | Test Standard |
|--|-------|-------------------|---------------|
| ISO Data | | | |
| Tensile Modulus | 8100 | MPa | ISO 527 |
| Stress at break | 106 | MPa | ISO 527 |
| Strain at break | 2 | % | ISO 527 |
| Flexural modulus | 7050 | MPa | ISO 178 |
| Izod impact strength, +23°C, 4mm | 34 | kJ/m ² | ISO 180/1U |
| Izod impact strength, -30°C, 4mm | 30 | kJ/m ² | ISO 180/1U |
| Izod notched impact strength, +23°C, 4mm | 11 | kJ/m ² | ISO 180/1A |
| Izod notched impact strength, -30°C, 4mm | 10 | kJ/m ² | ISO 180/1A |
| Ball indentation hardness | 130 | MPa | ISO 2039-1 |

| Thermal properties | Value | Unit | Test Standard |
|--|-------|-------|-----------------|
| ISO Data | | | |
| Vicat softening temperature, A | 155 | °C | ISO 306 |
| Vicat softening temperature, B | 149 | °C | ISO 306 |
| Vicat softening temperature, 120°C/h 50N | 158 | °C | ISO 306 |
| Burning behav. at 1.5 mm nom. thickn. | HB | class | IEC 60695-11-10 |
| Thickness tested | 1.5 | mm | - |
| Glow Wire Flammability Index (GWFI) | 750 | °C | IEC 60695-2-12 |
| GWFI - thickness tested (1) | 3 | mm | - |
| Glow Wire Ignition Temperature (GWIT) | 750 | °C | IEC 60695-2-13 |
| GWIT - thickness tested (3) | 3 | mm | - |

| Electrical properties | Value | Unit | Test Standard |
|-----------------------------|-------|-------|---------------|
| ISO Data | | | |
| Relative permittivity, 1MHz | 2.9 | - | 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 | 0.2 | % | Sim. to ISO 62 |
| Humidity absorption | 0.06 | % | Sim. to ISO 62 |
| Density | 1300 | kg/m ³ | ISO 1183 |
| Density | 1290 | kg/m ³ | ASTM D 792 |

| Processing Recommendation Injection Molding | Value | Unit | Test Standard |
|---|-----------|------|---------------|
| Pre-drying - Temperature | 100 - 120 | °C | - |
| Pre-drying - Time | 2 - 4 | h | - |
| Processing humidity | ≤0.02 | % | - |
| Melt temperature | 280 - 300 | °C | - |
| Mold temperature | 80 - 120 | °C | - |
| Feed temperature | 60 - 80 | °C | - |
| Zone 1 | 250 - 270 | °C | - |

NORYL™ Resin PX1630 - Europe

(PPE+PS)-GF30

Saudi Basic Industries Corporation (SABIC)

| | | | |
|--------|------------------|----|---|
| Zone 2 | 270 - 290 | °C | - |
| Zone 3 | 290 - 310 | °C | - |

Characteristics**Processing**

Injection Molding

Regional Availability

Europe

Chemical Resistance

Hydrolytically Stable