# NORYL™ RESIN PX0888

REGION ASIA

## DESCRIPTION

NORYL PX0888 resin is a non-reinforced blend of polyphenylene ether (PPE) + polystyrene (PS). This grade exhibits very low moisture absorption, hydrolytic stability, dimensional stabilty, good foam adhesion, and property retention over a wide temperature range. NORYL PX0888 resin is inherently UL94 HB and is an excellent candidate for automotive interior applications such as instrument panels, audio components, speaker housings, and interior trim.

| GENERAL INFORMATION | |
|---|---|
| Features | Hydrolytic Stability, Low Warpage, Amorphous, Low Shrinkage, Low Moisture Absorption, Low Specific Gravity, Dimensional stability, No PFAS intentionally added |
| Fillers | Unreinforced |
| Polymer Types | Polyphenylene Ether + PS (PPE+PS) |
| Processing Techniques | Injection Molding |

| INDUSTRY | SUB INDUSTRY |
|---|---|
| Automotive | Automotive Interiors |

## TYPICAL PROPERTY VALUES

Revision 20231109

| PROPERTIES | TYPICAL VALUES | UNITS | TEST METHODS |
|---|---|---|---|
| MECHANICAL [1] | | | |
| Tensile Stress, yld, Type I, 50 mm/min | 58 | MPa | ASTM D638 |
| Tensile Strain, brk, Type I, 50 mm/min | 30 | % | ASTM D638 |
| Flexural Stress, yld, 2.6 mm/min, 100 mm span | 93 | MPa | ASTM D790 |
| Flexural Modulus, 2.6 mm/min, 100 mm span | 2350 | MPa | ASTM D790 |
| Hardness, Rockwell R | 118 | - | ASTM D785 |
| IMPACT [1] | | | |
| Izod Impact, notched, 23°C | 197 | J/m | ASTM D256 |
| Izod Impact, notched, -40°C | 133 | J/m | ASTM D256 |
| THERMAL [1] | | | |
| HDT, 0.45 MPa, 6.4 mm, unannealed | 129 | °C | ASTM D648 |
| HDT, 1.82 MPa, 6.4 mm, unannealed | 127 | °C | ASTM D648 |
| CTE, 0°C to 100°C, flow | 7.38E-05 | 1/°C | ASTM E831 |
| PHYSICAL [1] | | | |
| Specific Gravity | 1.04 | - | ASTM D792 |
| Water Absorption, (23°C/24hrs) | 0.1 | % | ASTM D570 |
| Mold Shrinkage, flow, 3.2 mm [2] | 0.5 – 0.7 | % | SABIC method |
| Melt Volume Rate, MVR at 300°C/2.16 kg | 6 | cm³/10 min | ISO 1133 |
| INJECTION MOLDING [3] | | | |
| Drying Temperature | 105 – 110 | °C | |
| Drying Time | 3 – 4 | Hrs | |
| Drying Time (Cumulative) | 8 | Hrs | |

| PROPERTIES | TYPICAL VALUES | UNITS | TEST METHODS |
|---|---|---|---|
| Maximum Moisture Content | 0.02 | % | |
| Melt Temperature | 280 – 310 | °C | |
| Nozzle Temperature | 280 – 310 | °C | |
| Front - Zone 3 Temperature | 270 – 310 | °C | |
| Middle - Zone 2 Temperature | 260 – 305 | °C | |
| Rear - Zone 1 Temperature | 250 – 300 | °C | |
| Mold Temperature | 75 – 105 | °C | |
| Back Pressure | 0.3 – 0.7 | MPa | |
| Screw Speed | 20 – 100 | rpm | |
| Shot to Cylinder Size | 30 – 70 | % | |

(1) The information stated on Technical Datasheets should be used as indicative only for material selection purposes and not be utilized as specification or used for part or tool design.

(2) Measurements made from laboratory test coupon. Actual shrinkage may vary outside of range due to differences in processing conditions, equipment, part geometry and tool design. It is recommended that mold shrinkage studies be performed with surrogate or legacy tooling prior to cutting tools for new molded article.

(3) Injection Molding parameters are only mentioned as general guidelines. These may not apply or may need adjustment in specific situations such as low shot sizes, large part molding, thin wall molding and gas-assist molding.

## DISCLAIMER