# XENOY™ FR RESIN IQNH2900

REGION ASIA

## DESCRIPTION

Import Grade. UL94 V-0 Performance with Non-Brominated Flame Retardant. PCR% is up to 12% by using Valox iQ* resin.

## TYPICAL PROPERTY VALUES

Revision 20190828

| PROPERTIES | TYPICAL VALUES | UNITS | TEST METHODS |
|---|---|---|---|
| MECHANICAL | | | |
| Tensile Stress, yld, Type I, 50 mm/min | 63 | MPa | ASTM D 638 |
| Tensile Stress, brk, Type I, 50 mm/min | 42 | MPa | ASTM D 638 |
| Tensile Strain, yld, Type I, 50 mm/min | 4 | % | ASTM D 638 |
| Tensile Strain, brk, Type I, 50 mm/min | 65 | % | ASTM D 638 |
| Tensile Modulus, 50 mm/min | 2480 | MPa | ASTM D 638 |
| Flexural Stress, yld, 1.3 mm/min, 50 mm span | 89 | MPa | ASTM D 790 |
| Flexural Modulus, 1.3 mm/min, 50 mm span | 2240 | MPa | ASTM D 790 |
| IMPACT | | | |
| Izod Impact, notched, 23°C | 550 | J/m | ASTM D 256 |
| Instrumented Impact Total Energy, 23°C | 65 | J | ASTM D 3763 |
| THERMAL | | | |
| Vicat Softening Temp, Rate B/50 | 100 | °C | ASTM D 1525 |
| HDT, 1.82 MPa, 3.2mm, unannealed | 77 | °C | ASTM D 648 |
| Relative Temp Index, Elec [(1)] | 75 | °C | UL 746B |
| Relative Temp Index, Mech w/impact [(1)] | 75 | °C | UL 746B |
| Relative Temp Index, Mech w/o impact [(1)] | 75 | °C | UL 746B |
| PHYSICAL | | | |
| Specific Gravity | 1.2 | - | ASTM D 792 |
| Mold Shrinkage, flow, 3.2 mm | 0.5 – 0.7 | % | SABIC method |
| Melt Flow Rate, 266°C/5.0 kgf | 26 | g/10 min | ASTM D 1238 |
| FLAME CHARACTERISTICS [(1)] | | | |
| UL Yellow Card Link | E207780-100745645 | - | - |
| UL Recognized, 94-5VB Flame Class Rating | ≥2.5 | mm | UL 94 |
| UL Recognized, 94V-0 Flame Class Rating | ≥1.5 | mm | UL 94 |
| UL Recognized, 94V-1 Flame Class Rating | ≥1.1 | mm | UL 94 |
| INJECTION MOLDING | | | |
| Drying Temperature | 80 – 90 | °C | |
| Drying Time | 3 – 4 | hrs | |
| Drying Time (Cumulative) | 8 | hrs | |
| Maximum Moisture Content | 0.04 | % | |
| Melt Temperature | 245 – 275 | °C | |
| Nozzle Temperature | 245 – 275 | °C | |
| Front - Zone 3 Temperature | 245 – 275 | °C | |
| Middle - Zone 2 Temperature | 220 – 265 | °C | |

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| PROPERTIES | TYPICAL VALUES | UNITS | TEST METHODS |
|---|---|---|---|
| Rear - Zone 1 Temperature | 220 – 255 | °C | |
| Mold Temperature | 60 – 80 | °C | |
| Back Pressure | 0.3 – 0.7 | MPa | |
| Screw Speed | 40 – 70 | rpm | |
| Shot to Cylinder Size | 30 – 80 | % | |
| Vent Depth | 0.038 – 0.076 | mm | |

(1) UL Ratings shown on the technical datasheet might not cover the full range of thicknesses and colors. For details, please see the UL Yellow Card.

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