

**Ryton® QC160N**

PPS

Syensqo

| Processing/Physical Characteristics    | Value | Unit              | Test Standard   |
|--|-------|-------------------|-----------------|
| <b>ASTM Data</b>                       |       |                   |                 |
| Melt Flow Index, MFI                   | 45    | g/10min           | ASTM D 1238     |
| Temperature                            | 316   | °C                | -               |
| Load                                   | 5     | kg                | -               |
| <b>Mechanical properties</b>           |       |                   |                 |
| <b>ISO Data</b>                        |       |                   |                 |
| Tensile Modulus                        | 3400  | MPa               | ISO 527         |
| Tensile Strength                       | 75    | MPa               | ISO 527         |
| Strain at break                        | 6     | %                 | ISO 527         |
| Flexural modulus, 23°C                 | 3400  | MPa               | ISO 178         |
| Izod notched impact strength, +23°C    | 4     | kJ/m <sup>2</sup> | ISO 180/1A      |
| <b>ASTM Data</b>                       |       |                   |                 |
| Izod Impact notched, 1/8 in            | 53    | J/m               | ASTM D 256      |
| <b>Thermal properties</b>              |       |                   |                 |
| <b>ISO Data</b>                        |       |                   |                 |
| Melting temperature, 10°C/min          | 280   | °C                | ISO 11357-1/-3  |
| Glass transition temperature, 10°C/min | 90    | °C                | ISO 11357-1/-2  |
| Burning behav. at 1.5 mm nom. thickn.  | V-0   | class             | IEC 60695-11-10 |
| Thickness tested                       | 1.6   | mm                | -               |
| <b>ASTM Data</b>                       |       |                   |                 |
| DTUL @ 66 psi                          | 160   | °C                | ASTM D 648      |
| DTUL @ 264 psi                         | 95    | °C                | ASTM D 648      |
| Limiting Oxygen Index                  | 44    | %                 | ASTM D 2863     |
| <b>Electrical properties</b>           |       |                   |                 |
| <b>ASTM Data</b>                       |       |                   |                 |
| Dielectric Strength, Short Time        | 24    | kV/mm             | ASTM D 149      |
| Dissipation Factor, 1 MHz              | 0.002 | -                 | ASTM D 150      |
| Dielectric Constant, 1 MHz             | 3.2   | -                 | ASTM D 150      |
| Surface Resistivity                    | >1E15 | Ohm               | ASTM D 257      |
| Volume Resistivity                     | >1E15 | Ohm*cm            | ASTM D 257      |
| <b>Other properties</b>                |       |                   |                 |
| Water Absorption, 24hr                 | 0.05  | %                 | ASTM D 570      |
| Density                                | 1340  | kg/m <sup>3</sup> | ASTM D 792      |

**Characteristics****Processing**

Other Extrusion

**Delivery form**

Powder

**Features**

Thermal Stability

**Chemical Resistance**

General Chemical Resistance

**Regional Availability**

North America, Europe, Asia Pacific, South and Central America, Near East/Africa