

# QR Resin QR-2008-FR

Acrylonitrile Butadiene Styrene

QTR, Inc.

## Message:

Available with UV (V) or Release (R).

Flame Packages Available (0.0625 in min. thickness): 94V-2, 94V-0, 94-5VA

| General Information                      |                     |                   |             |
|------------------------------------------|---------------------|-------------------|-------------|
| Features                                 | Good Processability |                   |             |
| Appearance                               | Colors Available    |                   |             |
|                                          | Natural Color       |                   |             |
| Forms                                    | Pellets             |                   |             |
| Processing Method                        | Injection Molding   |                   |             |
| Physical                                 | Nominal Value       | Unit              | Test Method |
| Specific Gravity                         | 1.21                | g/cm <sup>3</sup> | ASTM D792   |
| Melt Mass-Flow Rate (MFR) (230°C/3.8 kg) | 8.0                 | g/10 min          | ASTM D1238  |
| Molding Shrinkage - Flow (3.18 mm)       | 0.60                | %                 | ASTM D955   |
| Mechanical                               | Nominal Value       | Unit              | Test Method |
| Tensile Strength (Yield)                 | 39.3                | MPa               | ASTM D638   |
| Flexural Modulus                         | 2340                | MPa               | ASTM D790   |
| Flexural Strength (Yield)                | 63.4                | MPa               | ASTM D790   |
| Impact                                   | Nominal Value       | Unit              | Test Method |
| Notched Izod Impact (23°C)               | 160                 | J/m               | ASTM D256   |
| Thermal                                  | Nominal Value       | Unit              | Test Method |
| Deflection Temperature Under Load        |                     |                   | ASTM D648   |
| 0.45 MPa, Unannealed                     | 76.7                | °C                |             |
| 1.8 MPa, Unannealed                      | 73.9                | °C                |             |
| Injection                                | Nominal Value       | Unit              |             |
| Drying Temperature                       | 82.2                | °C                |             |
| Drying Time                              | 3.0 to 6.0          | hr                |             |
| Drying Time, Maximum                     | 6.0                 | hr                |             |
| Rear Temperature                         | 166 to 182          | °C                |             |
| Middle Temperature                       | 193 to 204          | °C                |             |
| Front Temperature                        | 204 to 216          | °C                |             |
| Nozzle Temperature                       | 193 to 227          | °C                |             |
| Processing (Melt) Temp                   | 193 to 232          | °C                |             |
| Mold Temperature                         | 48.9 to 71.1        | °C                |             |

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