

# Resinext PC18RU

Polycarbonate  
Southland Polymers

Message:

Resinext PC18RU is a Polycarbonate (PC) product. It can be processed by injection molding and is available in North America.

Characteristics include:

- Flame Rated
- Good Mold Release
- Good UV Resistance
- Mold Release Agent
- UV Stabilized

| General Information                                     |                    |                   |             |
|---|--------------------|-------------------|-------------|
| Additive  | Mold Release       |                   |             |
|   | UV Stabilizer      |                   |             |
| Features  | General Purpose    |                   |             |
|   | Good Mold Release  |                   |             |
|   | Good UV Resistance |                   |             |
| Uses  | General Purpose    |                   |             |
| Forms   | Pellets            |                   |             |
| Processing Method                                       | Injection Molding  |                   |             |
| Physical  | Nominal Value      | Unit              | Test Method |
| Specific Gravity  | 1.20               | g/cm <sup>3</sup> | ASTM D792   |
| Melt Mass-Flow Rate (MFR) (300°C/1.2 kg)                | 18                 | g/10 min          | ASTM D1238  |
| Molding Shrinkage - Flow (3.18 mm)                      | 0.50 to 0.70       | %                 | ASTM D955   |
| Hardness  | Nominal Value      | Unit              | Test Method |
| Rockwell Hardness (M-Scale)                             | 70                 |                   | ASTM D785   |
| Mechanical  | Nominal Value      | Unit              | Test Method |
| Tensile Strength (Yield)                                | 62.9               | MPa               | ASTM D638   |
| Tensile Elongation                                      |                    |                   | ASTM D638   |
| Yield   | 6.0                | %                 |             |
| Break   | 110                | %                 |             |
| Flexural Modulus  | 2340               | MPa               | ASTM D790   |
| Flexural Strength (Yield)                               | 92.7               | MPa               | ASTM D790   |
| Impact  | Nominal Value      | Unit              | Test Method |
| Notched Izod Impact (3.18 mm)                           | 690                | J/m               | ASTM D256   |
| Unnotched Izod Impact (3.18 mm)                         | 3200               | J/m               | ASTM D256   |
| Thermal   | Nominal Value      | Unit              | Test Method |
| Deflection Temperature Under Load (1.8 MPa, Unannealed) | 132                | °C                | ASTM D648   |

| Flammability | Nominal Value | Test Method |
|--------------|---------------|-------------|
| Flame Rating | V-2           | UL 94       |

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