

# ENVIROPLAS® ENV12-NC220

Polycarbonate

ENVIROPLAS®, Inc.

## Message:

Injection Molding Grade, High Flow, UV Stabilized, w/Mold Release, RoHS Compliant

NC210 = To Be Assigned 5 Digit Number Indicating Natural, Black, or Custom Color.

Contact Enviropas Regarding UL Recognized Versions Of This Product.

| General Information                      |                    |                   |                 |
|------------------------------------------|--------------------|-------------------|-----------------|
| Additive                                 | Mold Release       |                   |                 |
|                                          | UV Stabilizer      |                   |                 |
| Features                                 | Good Mold Release  |                   |                 |
|                                          | Good UV Resistance |                   |                 |
|                                          | High Flow          |                   |                 |
| RoHS Compliance                          | RoHS Compliant     |                   |                 |
| Appearance                               | Black              |                   |                 |
|                                          | Colors Available   |                   |                 |
|                                          | Natural Color      |                   |                 |
| 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) | 10                 | g/10 min          | ASTM D1238      |
| Molding Shrinkage - Flow                 | 0.50 to 0.70       | %                 | ASTM D955       |
| Mechanical                               | Nominal Value      | Unit              | Test Method     |
| Tensile Strength (Yield)                 | 63.4               | MPa               | ASTM D638       |
| Tensile Elongation (Break)               | 120                | %                 | ASTM D638       |
| Flexural Modulus                         | 2340               | MPa               | ASTM D790       |
| Flexural Strength                        | 82.7               | MPa               | ASTM D790       |
| Impact                                   | Nominal Value      | Unit              | Test Method     |
| Notched Izod Impact (23°C)               | 910                | J/m               | ASTM D256       |
| Thermal                                  | Nominal Value      | Unit              | Test Method     |
| Deflection Temperature Under Load        |                    |                   | ASTM D648       |
| 0.45 MPa, Unannealed                     | 138                | °C                |                 |
| 1.8 MPa, Unannealed                      | 129                | °C                |                 |
| Flammability                             | Nominal Value      | Test Method       |                 |
| Flame Rating                             |                    |                   | Internal Method |
| 1.50 mm                                  | V-2                |                   |                 |

| 3.00 mm                | V-2            |      |
|------------------------|----------------|------|
| Injection              | Nominal Value  | Unit |
| Drying Temperature     | 110            | °C   |
| Drying Time            | 3.0 to 4.0     | hr   |
| Suggested Max Moisture | 0.050          | %    |
| Rear Temperature       | 260 to 282     | °C   |
| Middle Temperature     | 271 to 293     | °C   |
| Front Temperature      | 282 to 304     | °C   |
| Nozzle Temperature     | 288 to 316     | °C   |
| Mold Temperature       | 68.3 to 93.3   | °C   |
| Injection Rate         | Moderate-Fast  |      |
| Back Pressure          | 0.345 to 0.689 | MPa  |
| Screw Speed            | 40 to 70       | rpm  |

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#### Recommended distributors for this material

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