

# ENVIRON® ENV39-NC410

Polycarbonate + PBT

ENVIROPLAS®, Inc.

## Message:

Injection Molding Grade, UV Stabilized, w/Mold Release, Modified for Low Temperature Impact Resistance, Excellent Chemical Resistance, RoHS Compliant

NC410 = 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 Chemical Resistance          |                   |             |
|   | Good Mold Release                 |                   |             |
|   | Good UV Resistance                |                   |             |
|   | Low Temperature Impact Resistance |                   |             |
| RoHS Compliance   | RoHS Compliant                    |                   |             |
| Appearance  | Black                             |                   |             |
|   | Colors Available                  |                   |             |
|   | Natural Color                     |                   |             |
| Forms   | Pellets                           |                   |             |
| Processing Method                                       | Injection Molding                 |                   |             |
| Physical  | Nominal Value                     | Unit              | Test Method |
| Specific Gravity  | 1.21                              | g/cm <sup>3</sup> | ASTM D792   |
| Melt Mass-Flow Rate (MFR) (250°C/5.0 kg)                | 18                                | g/10 min          | ASTM D1238  |
| Molding Shrinkage - Flow                                | 0.80 to 1.1                       | %                 | ASTM D955   |
| Mechanical  | Nominal Value                     | Unit              | Test Method |
| Tensile Strength (Yield)                                | 52.4                              | MPa               | ASTM D638   |
| Tensile Elongation (Break)                              | 120                               | %                 | ASTM D638   |
| Flexural Modulus  | 2000                              | MPa               | ASTM D790   |
| Flexural Strength                                       | 82.7                              | MPa               | ASTM D790   |
| Impact  | Nominal Value                     | Unit              | Test Method |
| Notched Izod Impact                                     |                                   |                   | ASTM D256   |
| -40°C   | 270                               | J/m               |             |
| 23°C  | 640                               | J/m               |             |
| Thermal   | Nominal Value                     | Unit              | Test Method |
| Deflection Temperature Under Load (1.8 MPa, Unannealed) | 85.0                              | °C                | ASTM D648   |

| Flammability           | Nominal Value | Test Method     |
|------------------------|---------------|-----------------|
| Flame Rating (1.50 mm) | HB            | Internal Method |

  

| Injection          | Nominal Value  | Unit |
|--------------------|----------------|------|
| Drying Temperature | 110            | °C   |
| Drying Time        | 4.0 to 6.0     | hr   |
| Rear Temperature   | 243 to 266     | °C   |
| Middle Temperature | 249 to 271     | °C   |
| Front Temperature  | 254 to 277     | °C   |
| Nozzle Temperature | 254 to 277     | °C   |
| Mold Temperature   | 65.6 to 87.8   | °C   |
| Injection Rate     | Moderate-Fast  |      |
| Back Pressure      | 0.345 to 0.689 | MPa  |
| Screw Speed        | 50 to 80       | rpm  |

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#### Recommended distributors for this material

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