

# ENVIROLOY® ENV15-NC290

Polycarbonate + ABS

ENVIROPLAS®, Inc.

## Message:

Injection Molding Grade, Excellent For Temperature Fluctuations, RoHS Compliant  
NC290 = To Be Assigned 5 Digit Number Indicating Natural, Black, or Custom Color.  
The ENV15 Series Products Are Available With Mold Release and/or UV Stabilizer.

| General Information                                     |                   |                   |             |
|---------------------------------------------------------|-------------------|-------------------|-------------|
| RoHS Compliance                                         | RoHS Compliant    |                   |             |
| Appearance                                              | Black             |                   |             |
|                                                         | Colors Available  |                   |             |
|                                                         | Natural Color     |                   |             |
| Forms                                                   | Pellets           |                   |             |
| Processing Method                                       | Injection Molding |                   |             |
| Physical                                                | Nominal Value     | Unit              | Test Method |
| Specific Gravity                                        | 1.14              | g/cm <sup>3</sup> | ASTM D792   |
| Melt Mass-Flow Rate (MFR)                               |                   |                   | ASTM D1238  |
| 260°C/3.8 kg                                            | 17                | g/10 min          |             |
| 260°C/5.0 kg                                            | 21                | g/10 min          |             |
| Molding Shrinkage - Flow                                | 0.50 to 0.70      | %                 | ASTM D955   |
| Mechanical                                              | Nominal Value     | Unit              | Test Method |
| Tensile Strength (Yield)                                | 52.4              | MPa               | ASTM D638   |
| Tensile Elongation (Break)                              | 100               | %                 | ASTM D638   |
| Flexural Modulus                                        | 2280              | MPa               | ASTM D790   |
| Flexural Strength                                       | 79.3              | MPa               | ASTM D790   |
| Impact                                                  | Nominal Value     | Unit              | Test Method |
| Notched Izod Impact (23°C)                              | 690               | J/m               | ASTM D256   |
| Thermal                                                 | Nominal Value     | Unit              | Test Method |
| Deflection Temperature Under Load (1.8 MPa, Unannealed) | 107               | °C                | ASTM D648   |
| Flammability                                            | Nominal Value     | Unit              | Test Method |
| Burning Rate                                            | < 90              | mm/min            | FMVSS 302   |
| Injection                                               | Nominal Value     | Unit              |             |
| Drying Temperature                                      | 104               | °C                |             |
| Drying Time                                             | 3.0 to 4.0        | hr                |             |
| Suggested Max Moisture                                  | 0.050             | %                 |             |
| Rear Temperature                                        | 254 to 293        | °C                |             |
| Middle Temperature                                      | 254 to 293        | °C                |             |
| Front Temperature                                       | 266 to 304        | °C                |             |

|                    |                |     |
|--------------------|----------------|-----|
| Nozzle Temperature | 274 to 307     | °C  |
| Mold Temperature   | 65.6 to 87.8   | °C  |
| Injection Rate     | Moderate-Fast  |     |
| Back Pressure      | 0.345 to 0.689 | MPa |
| Screw Speed        | 40 to 70       | rpm |

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