

ENVIROPLAS® ENV00-NC700

Acrylonitrile Butadiene Styrene

ENVIROPLAS®, Inc.

Message:

Injection Molding Grade, Flame Retardant, Medium Flow,
Excellent Stiffness Combined With Impact Resistance, Reach/RoHS Compliant
NC700 = To Be Assigned 5 Digit Number Indicating Natural, Black, or Custom Color.
The ENV00 Series Products Are Available With Mold Release and/or UV Stabilizer.

| General Information | | | |
|------------------------------------------|------------------------|----------|-----------------|
| Additive | Flame Retardant | | |
| Features | Flame Retardant | | |
| | High Impact Resistance | | |
| | High Stiffness | | |
| | Medium Flow | | |
| Agency Ratings | EC 1907/2006 (REACH) | | |
| RoHS Compliance | RoHS Compliant | | |
| Appearance | Black | | |
| | Colors Available | | |
| | Natural Color | | |
| Forms | Pellets | | |
| Processing Method | Injection Molding | | |
| Physical | Nominal Value | Unit | Test Method |
| Specific Gravity | 1.19 | g/cm³ | ASTM D792 |
| Melt Mass-Flow Rate (MFR) (230°C/3.8 kg) | 4.5 | g/10 min | ASTM D1238 |
| Molding Shrinkage - Flow | 0.50 to 0.70 | % | ASTM D955 |
| Mechanical | Nominal Value | Unit | Test Method |
| Tensile Strength (Yield) | 43.4 | MPa | ASTM D638 |
| Tensile Elongation (Break) | 30 | % | ASTM D638 |
| Flexural Modulus | 2620 | MPa | ASTM D790 |
| Flexural Strength | 72.4 | MPa | ASTM D790 |
| Impact | Nominal Value | Unit | Test Method |
| Notched Izod Impact (23°C) | 190 | J/m | ASTM D256 |
| Thermal | Nominal Value | Unit | Test Method |
| Deflection Temperature Under Load | | | ASTM D648 |
| 0.45 MPa, Unannealed | 85.0 | °C | |
| 1.8 MPa, Unannealed | 71.1 | °C | |
| Flammability | Nominal Value | | Test Method |
| Flame Rating | | | Internal Method |

| 1.50 mm | V-0 | |
|------------------------|---------------|------|
| 3.00 mm | 5VA | |
| Injection | Nominal Value | Unit |
| Drying Temperature | 87.8 | °C |
| Drying Time | 2.0 to 4.0 | hr |
| Suggested Max Moisture | 0.050 | % |
| Rear Temperature | 177 to 193 | °C |
| Middle Temperature | 188 to 204 | °C |
| Front Temperature | 193 to 210 | °C |
| Nozzle Temperature | 199 to 216 | °C |
| Mold Temperature | 43.3 to 65.6 | °C |
| Injection Rate | Fast | |
| Back Pressure | 0.00 to 0.172 | MPa |
| Screw Speed | Moderate | |

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