

DIAMALLOY ENGINEERED ALLOYS ABS

NYLON 4010A

Acrylonitrile Butadiene Styrene + Nylon
Network Polymers, Inc.

Message:

DIAMALLOY ENGINEERED ALLOYS ABS NYLON 4010A is an Acrylonitrile Butadiene Styrene + Nylon (ABS+Nylon) product. It can be processed by injection molding and is available in North America.

Characteristics include:

- REACH Compliant
- RoHS Compliant
- WEEE Compliant
- Good Weather Resistance

| General Information | | | |
|---|-------------------------|-------------------|-------------|
| Features | Good Weather Resistance | | |
| Agency Ratings | EC 1907/2006 (REACH) | | |
| | EU 2002/96/EC (WEEE) | | |
| RoHS Compliance | RoHS Compliant | | |
| Forms | Pellets | | |
| Processing Method | Injection Molding | | |
| Physical | Nominal Value | Unit | Test Method |
| Specific Gravity | 1.09 | g/cm ³ | ASTM D792 |
| Melt Mass-Flow Rate (MFR) ¹ (265°C/5.0 kg) | 37 | g/10 min | ASTM D1238 |
| Molding Shrinkage - Flow (23°C, 3.18 mm, Injection Molded) | 0.50 to 0.70 | % | ASTM D955 |
| Mechanical | Nominal Value | Unit | Test Method |
| Tensile Strength | | | ASTM D638 |
| Yield, 23°C, 3.18 mm, Injection Molded | 42.2 | MPa | |
| Yield, 23°C, 3.18 mm, Injection Molded | 43.6 | MPa | |
| Break, 23°C, 3.18 mm, Injection Molded | 35.9 | MPa | |
| Break, 23°C, 3.18 mm, Injection Molded | 39.4 | MPa | |
| Tensile Elongation ² | | | ASTM D638 |
| Yield, 23°C, 3.18 mm, Injection Molded ³ | 3.7 | % | |
| Yield, 23°C, 3.18 mm, Injection Molded ⁴ | 3.6 | % | |
| Break, 23°C, 3.18 mm, Injection Molded ⁵ | 15 | % | |
| Break, 23°C, 3.18 mm, Injection Molded ⁶ | 200 | % | |
| Flexural Modulus - Tangent ⁷ (23°C, 3.18 mm, Injection Molded, 50.8 mm Span) | 1480 | MPa | ASTM D790B |

| Impact | Nominal Value | Unit | Test Method |
|--|-------------------------------------|------|-------------------------|
| Notched Izod Impact (23°C, 3.18 mm, Injection Molded) | No Break | | ASTM D256A |
| Thermal | Nominal Value | Unit | Test Method |
| Deflection Temperature Under Load (1.8 MPa, Unannealed, 3.18 mm, Injection Molded) | 52.8 | °C | ASTM D648 |
| Vicat Softening Temperature | 143 | °C | ASTM D1525 ⁸ |
| Injection | Nominal Value | Unit | |
| Drying Temperature | 80.0 to 85.0 | °C | |
| Drying Time | 4.0 to 6.0 | hr | |
| Suggested Max Moisture | 0.10 | % | |
| Suggested Shot Size | 40 to 70 | % | |
| Suggested Max Regrind | 25 | % | |
| Rear Temperature | 230 to 260 | °C | |
| Middle Temperature | 232 to 260 | °C | |
| Front Temperature | 235 to 260 | °C | |
| Nozzle Temperature | 220 to 260 | °C | |
| Processing (Melt) Temp | 220 to 260 | °C | |
| Mold Temperature | 71.1 to 82.2 | °C | |
| Injection Rate | Fast | | |
| Back Pressure | 0.517 to 1.03 | MPa | |
| NOTE | | | |
| 1. | Procedure A | | |
| 2. | 51 mm/min | | |
| 3. | double gate | | |
| 4. | single gate | | |
| 5. | double gate | | |
| 6. | single gate | | |
| 7. | Method I (3 point load), 1.3 mm/min | | |
| 8. | Rate B (120°C/h), Loading 1 (10 N) | | |

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