

Heramid® S NER GFP3010K

Radici Group High Performance Polymers - Polyamide 6

General Information

Product Description

PA6 30% glass fiber and mineral filler reinforced injection moulding grade. Heat stabilized Black colour.

Post-industrial grade produced with selected polymers coming from polymerization, fibres and compounding plants.

General

| | |
|------------------------|---|
| Filler / Reinforcement | <ul style="list-style-type: none"> Glass Fiber\Mineral, 30% Filler by Weight |
| Additive | <ul style="list-style-type: none"> Heat Stabilizer |
| Recycled Content | <ul style="list-style-type: none"> Post-Industrial (PIR)/Pre-Consumer |
| Features | <ul style="list-style-type: none"> Heat Stabilized |
| Uses | <ul style="list-style-type: none"> Automotive Applications |
| Agency Ratings | <ul style="list-style-type: none"> EU 2011/65/EC |
| RoHS Compliance | <ul style="list-style-type: none"> RoHS Compliant |
| Appearance | <ul style="list-style-type: none"> Black |
| Processing Method | <ul style="list-style-type: none"> Injection Molding |
| Resin ID (ISO 1043) | <ul style="list-style-type: none"> PA6 (GF+MX)30 |

Properties ¹

| Physical | Nominal Value | Unit | Test Method |
|--|---------------|-----------------------|----------------|
| Density | 1.35 | g/cm ³ | ISO 1183 |
| Mechanical | Nominal Value | Unit | Test Method |
| Tensile Modulus | 972000 | psi | ISO 527-1/1A/1 |
| Tensile Stress (Break) | 12300 | psi | ISO 527-2/1A/5 |
| Tensile Strain (Break) | 2.5 | % | ISO 527-2/1A/5 |
| Flexural Modulus ² | 870000 | psi | ISO 178 |
| Flexural Stress ² | 18100 | psi | ISO 178 |
| Impact | Nominal Value | Unit | Test Method |
| Charpy Notched Impact Strength (73°F) | 2.9 | ft·lb/in ² | ISO 179/1eA |
| Charpy Unnotched Impact Strength (73°F) | 19 | ft·lb/in ² | ISO 179/1eU |
| Thermal | Nominal Value | Unit | Test Method |
| Deflection Temperature Under Load 264 psi, Unannealed | 374 | °F | ISO 75-2/Af |
| Melting Temperature ³ | 428 | °F | ISO 11357-3 |

Processing Information

| Injection | Nominal Value | Unit |
|--------------------------------------|---------------|------|
| Drying Temperature - Desiccant Dryer | 176 | °F |
| Drying Time - Desiccant Dryer | 2.0 to 4.0 | hr |
| Dew Point - Desiccant Dryer | < -4 | °F |
| Suggested Max Moisture | 0.10 | % |
| Processing (Melt) Temp | 464 to 536 | °F |
| Mold Temperature | 176 to 194 | °F |
| Injection Rate | Moderate-Fast | |