# Radiflam® A RV250 AE 3733 BK

## Radici Group High Performance Polymers - *Polyamide 66*

### General Information

**Product Description**

PA66 flame retardant injection moulding grade. 25% glass fibre reinforced. Black colour.

Suitable for parts requiring fire retardancy, medium stiffness and good mechanical resistance. Rated V-0 according to UL-94.

| General | | | |
|---|---|---|---|
| Material Status | • Commercial: Active | | |
| Availability | • Africa & Middle East<br>• Asia Pacific | • Europe<br>• Latin America | • North America |
| Filler / Reinforcement | • Glass Fiber, 25% Filler by Weight | | |
| Additive | • Flame Retardant | | |
| Features | • Flame Retardant | • Medium Stiffness | |
| Agency Ratings | • EU 2011/65/EC | | |
| RoHS Compliance | • RoHS Compliant | | |
| Appearance | • Black | | |
| Processing Method | • Injection Molding | | |
| Resin ID (ISO 1043) | • PA66-GF25 FR(17) | | |

### Properties [1]

| Physical | Nominal Value | Unit | Test Method |
|---|---|---|---|
| Density | 1.59 | g/cm³ | ISO 1183 |
| Water Absorption (Saturation, 73°F, 0.0787 in) | 3.7 | % | ISO 62 |
| Water Absorption (Equilibrium, 73°F, 0.0787 in, 50% RH) | 0.90 | % | ISO 62 |
| **Mechanical** | **Nominal Value** | **Unit** | **Test Method** |
| Tensile Modulus | 1.57E+6 | psi | ISO 527-1/1A/1 |
| Tensile Stress (Break) | 21300 | psi | ISO 527-2/1A/5 |
| Tensile Strain (Break) | 1.9 | % | ISO 527-2/1A/5 |
| Flexural Modulus [2] | 1.43E+6 | psi | ISO 178 |
| Flexural Stress [2] | 30700 | psi | ISO 178 |
| **Impact** | **Nominal Value** | **Unit** | **Test Method** |
| Charpy Notched Impact Strength (73°F) | 4.8 | ft·lb/in² | ISO 179/1eA |
| Notched Izod Impact Strength (73°F) | 3.5 | ft·lb/in² | ISO 180/1A |
| **Thermal** | **Nominal Value** | **Unit** | **Test Method** |
| Melting Temperature [3] | 500 | °F | ISO 11357-3 |
| **Flammability** | **Nominal Value** | **Unit** | **Test Method** |
| Flame Rating (0.016 in) | V-0 | | UL 94 |
| Glow Wire Flammability Index | | | IEC 60695-2-12 |
| 0.04 in | 1760 | °F | |
| 0.08 in | 1760 | °F | |

### 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 | 536 to 572 | °F |
| Mold Temperature | 176 to 212 | °F |
| Injection Rate | Moderate-Fast | |

| Notes |
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| [1] Typical properties: these are not to be construed as specifications. |
| [2] 0.079 in/min |
| [3] 10°C/min |