

RADIFLAM A RV250K AE 121 C NAT 3489

Material code Colour code

PROVISIONAL

DESCRIPTION

PA66 flame retardant injection moulding grade. 25% glass fiber reinforced. Natural colour.

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

ISO 1043 : PA66-T GF25 FR(17+72)

MATERIAL HANDLING AND PROCESSING

The material is delivered in moisture-proof packaging ready for processing. Maximum recommended water content for best processing is 0.10%. Typical conditions with a desiccant drier: temperature 80 ° C, dew point -20 ° C or below, time 2-4 h or more.

Avoid excessive shear rates and high thermal stresses for better processing. Special care must be taken to avoid moisture absorption and contamination with other polymers when adding regrind material. Colour variation and mechanical properties reduction may occur and should always be carefully monitored.

Processing Parameters

| | | |
|-------------------|-------------------|------------------|
| Melt Temperature: | Mold Temperature: | Injection Speed: |
| 280 ÷ 300 °C | 80 ÷ 100 °C | Medium-high |

PRODUCT SAFETY AND APPROVALS

For safety instruction please refer to Material Safety Data Sheet



Underwriters Laboratories Inc. certified material. File number: E116324 www.ul.com

RoHS compliant 2002/95/CE and following amendments



Technical data sheet

PROVISIONAL

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| PROPERTY | STANDARD | UNIT | VALUE | |
|-------------------------------------|------------------------------|-------------------|-----------|--------|
| | | | DAM* | Cond** |
| Physical Properties | | | | |
| Density | ISO 1183 | Kg/m ³ | 1570 | |
| Moisture absorption 23°C – 50%RH | 2mm thk ISO 62 | % | 1 | |
| Water absorption, immersion at 23°C | 2mm thk ISO 62 | % | 4 | |
| Mechanical Properties | | | | |
| Tensile Modulus | 1mm/min ISO 527-2/1A | MPa | 9500 | |
| Stress at Break | 5mm/min ISO 527-2/1A | MPa | 110 | |
| Strain at Break | 5mm/min ISO 527-2/1A | % | 1.9 | |
| Flexural Modulus | 2mm/min ISO 178 | MPa | 8800 | |
| Flexural Strength | 2mm/min ISO 178 | MPa | 170 | |
| Charpy Impact Strength | +23°C ISO 179/1 eU | KJ/m ² | 42 | 45 |
| Charpy Notched Impact Strength | +23°C ISO 179/1 eA | KJ/m ² | 10 | 12 |
| Thermal Properties | | | | |
| Melting Temperature | 10°C/min ISO 11357-1-3 | °C | 260 | |
| Heat Deflection Temperature | 1.8 MPa ISO 75/2 A f | °C | 225 | |
| Vicat Softening Temperature | 50°C/h ISO 306/B50 50N | °C | 240 | |
| Flammability Properties | | | | |
| Flammability | 0.8mm UL 94 | class | V0 | |
| Glow Wire Flammability Index | 1mm / 2mm IEC 60695-2-1/2 | °C/mm | 960 / 960 | |
| Glow Wire Ignition Temperature | 1mm / 2mm IEC 60695-2-1/3 | °C/mm | 850 / 850 | |
| Automotive interior flammability | Burn rate FMVSS302 | mm/min | 0 | |
| Electrical Properties | | | | |
| Volume resistivity | 500V IEC 60093 | ohm · m | 1 E+13 | 1 E+11 |
| Surface resistivity | 500V IEC 60093 | ohm | 1 E+12 | 1 E+10 |
| Comparative Tracking Index | Sol.A IEC 60112 | V | 450 | |

*DAM = Dry As Moulded state **Cond = Conditioned state similar to ISO 1110 ***Melt Temp [°C] / Mold Temp [°C] / Cavity press [MPa]

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