

PRODUCT INFORMATION

RADIFLAM AESTUS T2 RV300 HF 100 NT

PRELIMINARY

DESCRIPTION

PPA flame retardant injection moulding grade, 30% glass fiber reinforced. Halogen and red phosphorus free. High melting point. Natural color.

Suitable for parts requiring fire retardancy along with high stiffness and good mechanical resistance. Suitable for Lead Free Soldering application. Rated V0 according to UL94.

ISO 1043: PA-T GF30 FR(40)

THE CHARACTERISTICS SHOWN HERE MUST BE CONSIDERED PRELIMINARY AND INDICATIVE FOR A PRODUCT AT DEVELOPMENTAL STAGE

REGIONAL AVAILABILITY: North America, Europe, Asia Pacific, South and Central America, Near East/Africa

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 120° C, dew point -20 ° C or below, time 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.

Injection Molding Processing Parameters

Melt Temperature
310 - 320°C

Mold Temperature
100 - 110°C

Injection Speed
medium

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 2011/65/UE and following amendments

TECHNICAL DATA SHEET

RADIFLAM AESTUS T2 RV300 HF 100 NT

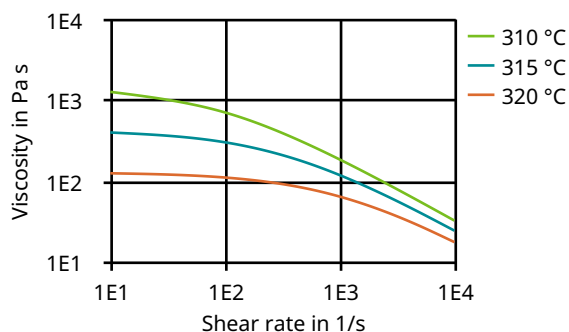
| PROPERTY | | STANDARD | UNIT | VALUE | |
|---|----------|-----------------|-------------------|-------|--------|
| | | | | DAM* | Cond** |
| PHYSICAL PROPERTIES | | | | | |
| Density | | ISO 1183 | kg/m ³ | 1470 | |
| Water Absorption, 24h immersion at 23°C | 2mm | ISO 62 | % | 0.1 | |
| MECHANICAL PROPERTIES | | | | | |
| Tensile Modulus | 1mm/min | ISO 527-2/1A | MPa | 11100 | 11000 |
| Stress at Break | 5mm/min | ISO 527-2/1A | MPa | 155 | 135 |
| Strain at Break | 5mm/min | ISO 527-2/1A | % | 2.4 | 2.2 |
| Flexural Modulus | 2mm/min | ISO 178 | MPa | 11000 | |
| Flexural Strength | 2mm/min | ISO 178 | MPa | 232 | |
| Charpy Impact Strength | +23°C | ISO 179/1eU | kJ/m ² | 53 | |
| Charpy Notched Impact Strength | +23°C | ISO 179/1eA | kJ/m ² | 10 | 11 |
| THERMAL PROPERTIES | | | | | |
| Melting Temperature | 10°C/min | ISO 11357-1/-3 | °C | 310 | |
| Heat Deflection Temperature | 1.80 MPa | ISO 75/2Af | °C | 280 | |
| FLAMMABILITY PROPERTIES | | | | | |
| Flammability | 0.4mm | UL 94 | class | V-0 | |
| Flammability | 1.5mm | UL 94 | class | 5VA | |
| Glow Wire Flammability Index | 1mm | IEC 60695-2-1/2 | °C | 960 | |
| Glow Wire Flammability Index | 2mm | IEC 60695-2-1/2 | °C | 960 | |
| Glow Wire Ignition Temperature | 1mm | IEC 60695-2-1/3 | °C | 800 | |
| Glow Wire Ignition Temperature | 2mm | IEC 60695-2-1/3 | °C | 800 | |
| ELECTRICAL PROPERTIES | | | | | |
| Volume Resistivity | 500V | IEC 60093 | Ohm*m | 1E13 | |
| Surface Resistivity | 500V | IEC 60093 | Ohm | 1E12 | |
| Electric Strength | | IEC 60243-1 | kV/mm | 42 | 44 |
| Comparative Tracking Index | Sol.A | IEC 60112 | - | 600 | |

*: DAM = Dry As Moulded state according to ISO 16396-2 **: Cond = Conditioned state similar to ISO 1110

RADIFLAM AESTUS T2 RV300 HF 100 NT

Diagrams

Viscosity-shear rate (->RADIFLAM AESTUS T2 RV300 HF 333 BK)



Shearstress-shear rate (->RADIFLAM AESTUS T2 RV300 HF 333 BK)

