

# Radilon® A RV300LK 339 E NER

Polyamide 66

Radici Plastics

## Message:

PA66 30% glass fiber reinforced injection moulding grade. Lubricated, heat stabilized. Deep black colour.

Suitable for parts requiring high stiffness, good mechanical resistance and good heat ageing properties retention. Easy flow and excellent surface aspect.

ISO 1043 : PA66-T GF30

| General Information                |                                                                                                                   |             |                   |                |
|------------------------------------|-------------------------------------------------------------------------------------------------------------------|-------------|-------------------|----------------|
| Filler / Reinforcement             | Glass Fiber,30% Filler by Weight                                                                                  |             |                   |                |
| Additive                           | Heat Stabilizer<br>Lubricant                                                                                      |             |                   |                |
| Features                           | Good Flow<br>Good Heat Aging Resistance<br>Good Surface Finish<br>Heat Stabilized<br>High Stiffness<br>Lubricated |             |                   |                |
| RoHS Compliance                    | RoHS Compliant                                                                                                    |             |                   |                |
| Appearance                         | Black                                                                                                             |             |                   |                |
| Processing Method                  | Injection Molding                                                                                                 |             |                   |                |
| Resin ID (ISO 1043)                | PA66-T GF30                                                                                                       |             |                   |                |
| Physical                           | Dry                                                                                                               | Conditioned | Unit              | Test Method    |
| Density                            | 1.35                                                                                                              | --          | g/cm <sup>3</sup> | ISO 1183       |
| Water Absorption                   |                                                                                                                   |             |                   | ISO 62         |
| Saturation, 23°C, 2.00 mm          | 7.0                                                                                                               | --          | %                 |                |
| Equilibrium, 23°C, 2.00 mm, 50% RH | 1.7                                                                                                               | --          | %                 |                |
| Mechanical                         | Dry                                                                                                               | Conditioned | Unit              | Test Method    |
| Tensile Modulus                    | 9000                                                                                                              | 6200        | MPa               | ISO 527-2/1A/1 |
| Tensile Stress (Break)             | 155                                                                                                               | 115         | MPa               | ISO 527-2/1A/5 |
| Tensile Strain (Break)             | 3.8                                                                                                               | 6.0         | %                 | ISO 527-2/1A/5 |
| Flexural Modulus <sup>1</sup>      | 8000                                                                                                              | --          | MPa               | ISO 178        |
| Flexural Stress <sup>2</sup>       | 240                                                                                                               | --          | MPa               | ISO 178        |
| Impact                             | Dry                                                                                                               | Conditioned | Unit              | Test Method    |
| Charpy Notched Impact Strength     |                                                                                                                   |             |                   | ISO 179/1eA    |
| -30°C                              | 11                                                                                                                | --          | kJ/m <sup>2</sup> |                |
| 23°C                               | 12                                                                                                                | 18          | kJ/m <sup>2</sup> |                |

|                                        |               |             |                   |                |
|----------------------------------------|---------------|-------------|-------------------|----------------|
| Charpy Unnotched Impact Strength       |               |             |                   | ISO 179/1eU    |
| -30°C                                  | 75            | --          | kJ/m <sup>2</sup> |                |
| 23°C                                   | 80            | 110         | kJ/m <sup>2</sup> |                |
| Thermal                                | Dry           | Conditioned | Unit              | Test Method    |
| Heat Deflection Temperature            |               |             |                   |                |
| 0.45 MPa, Unannealed                   | 250           | --          | °C                | ISO 75-2/Bf    |
| 1.8 MPa, Unannealed                    | 235           | --          | °C                | ISO 75-2/Af    |
| Vicat Softening Temperature            | 245           | --          | °C                | ISO 306/B50    |
| Melting Temperature <sup>3</sup>       | 260           | --          | °C                | ISO 11357      |
| Electrical                             | Dry           | Conditioned | Unit              | Test Method    |
| Surface Resistivity                    | 1.0E+12       | 1.0E+10     | ohms              | IEC 60093      |
| Volume Resistivity                     | 1.0E+15       | 1.0E+13     | ohms·cm           | IEC 60093      |
| Comparative Tracking Index             | 550           | --          | V                 | IEC 60112      |
| Flammability                           | Dry           | Conditioned | Unit              | Test Method    |
| Burning Rate                           | 0.0           | --          | mm/min            | FMVSS 302      |
| Flame Rating (0.800 mm)                | HB            | --          |                   | UL 94          |
| Glow Wire Flammability Index (2.00 mm) | 700           | --          | °C                | IEC 60695-2-12 |
| Injection                              | Dry           | Unit        |                   |                |
| Drying Temperature - Desiccant Dryer   | 80.0          |             | °C                |                |
| Drying Time - Desiccant Dryer          | 2.0 to 4.0    |             | hr                |                |
| Dew Point - Desiccant Dryer            | < -20.0       |             | °C                |                |
| Suggested Max Moisture                 | 0.15          |             | %                 |                |
| Processing (Melt) Temp                 | 280 to 300    |             | °C                |                |
| Mold Temperature                       | 80.0 to 100   |             | °C                |                |
| Injection Rate                         | Moderate-Fast |             |                   |                |
| NOTE                                   |               |             |                   |                |
| 1.                                     | 2.0 mm/min    |             |                   |                |
| 2.                                     | 2.0 mm/min    |             |                   |                |
| 3.                                     | 10°C/min      |             |                   |                |

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**Susheng Import & Export Trading Co.,Ltd.**

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

