

# Radilon® A USX016W 333 NER

Polyamide 66

Radici Plastics

## Message:

PA66 injection moulding grade. Toughened, heat stabilized. Black colour.  
Suitable for parts requiring excellent impact resistance and high flexibility.  
Very good properties retention after ageing.  
ISO 1043 : PA66-HI

| General Information                               |                            |             |                   |                 |
|---------------------------------------------------|----------------------------|-------------|-------------------|-----------------|
| Additive                                          | Heat Stabilizer            |             |                   |                 |
| Features                                          | Good Flexibility           |             |                   |                 |
|                                                   | Good Heat Aging Resistance |             |                   |                 |
|                                                   | Good Toughness             |             |                   |                 |
|                                                   | Heat Stabilized            |             |                   |                 |
|                                                   | High Impact Resistance     |             |                   |                 |
| RoHS Compliance                                   | RoHS Compliant             |             |                   |                 |
| Appearance                                        | Black                      |             |                   |                 |
| Processing Method                                 | Injection Molding          |             |                   |                 |
| Resin ID (ISO 1043)                               | PA66-HI                    |             |                   |                 |
| Physical                                          | Dry                        | Conditioned | Unit              | Test Method     |
| Density                                           | 1.08                       | --          | g/cm <sup>3</sup> | ISO 1183        |
| Molding Shrinkage <sup>1</sup>                    |                            |             |                   | ISO 294-4       |
| Across Flow                                       | 2.0                        | --          | %                 |                 |
| Flow                                              | 2.3                        | --          | %                 |                 |
| Mechanical                                        | Dry                        | Conditioned | Unit              | Test Method     |
| Tensile Modulus                                   | 1950                       | --          | MPa               | ISO 527-2/1A/1  |
| Tensile Stress (Yield)                            | 50.0                       | --          | MPa               | ISO 527-2/1A/50 |
| Tensile Strain (Yield)                            | 20                         | --          | %                 | ISO 527-2/1A/50 |
| Nominal Tensile Strain at Break                   | 60                         | --          | %                 | ISO 527-2/1A/50 |
| Flexural Modulus <sup>2</sup>                     | 1800                       | --          | MPa               | ISO 178         |
| Flexural Stress <sup>3</sup>                      | 70.0                       | --          | MPa               | ISO 178         |
| Impact                                            | Dry                        | Conditioned | Unit              | Test Method     |
| Charpy Notched Impact Strength (23°C)             | 25                         | --          | kJ/m <sup>2</sup> | ISO 179/1eA     |
| Thermal                                           | Dry                        | Conditioned | Unit              | Test Method     |
| Heat Deflection Temperature (1.8 MPa, Unannealed) | 70.0                       | --          | °C                | ISO 75-2/Af     |
| Vicat Softening Temperature                       | 200                        | --          | °C                | ISO 306/B50     |

|                                        |              |             |         |                |
|----------------------------------------|--------------|-------------|---------|----------------|
| Melting Temperature <sup>4</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      |
| Flammability                           | Dry          | Conditioned | Unit    | Test Method    |
| Burning Rate                           | < 30         | --          | mm/min  | FMVSS 302      |
| Flame Rating (0.800 mm)                | HB           | --          |         | UL 94          |
| Glow Wire Flammability Index (2.00 mm) | 650          | --          | °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                 | 270 to 290   |             | °C      |                |
| Mold Temperature                       | 60.0 to 80.0 |             | °C      |                |
| Injection Rate                         | Moderate     |             |         |                |

#### NOTE

- 290°C Melt Temp / 70°C Mold Temp / 30 Mpa Cavity press
- 2.0 mm/min
- 2.0 mm/min
- 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



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