

Radilon® A USX200W 333 BK

Radici Group High Performance Polymers - Polyamide 66

General Information

Product Description

PA66 injection moulding grade. Toughened, Heat stabilized. Black colour.

Suitable for parts requiring excellent impact resistance, even at low temperatures, and high flexibility.

General

| | |
|---------------------|---|
| Additive | <ul style="list-style-type: none"> Heat Stabilizer Impact Modifier |
| Features | <ul style="list-style-type: none"> Heat Stabilized High Flexibility High Impact Resistance Low Temperature Heat Sealability |
| Uses | <ul style="list-style-type: none"> Automotive Applications |
| Agency Ratings | <ul style="list-style-type: none"> EU 2011/65/EC |
| RoHS Compliance | <ul style="list-style-type: none"> RoHS Compliant |
| Appearance | <ul style="list-style-type: none"> Black |
| Processing Method | <ul style="list-style-type: none"> Injection Molding |
| Resin ID (ISO 1043) | <ul style="list-style-type: none"> PA66-IT |

Properties ¹

| Physical | Nominal Value | Unit | Test Method |
|--|---------------|-----------------------|-----------------|
| Density | 1.08 | g/cm ³ | ISO 1183 |
| Molding Shrinkage | | | ISO 294-4 |
| Across Flow | 1.5 | % | |
| Flow | 1.5 | % | |
| Water Absorption (Saturation, 73°F, 0.0787 in) | 7.0 | % | ISO 62 |
| Water Absorption | | | ISO 62 |
| Equilibrium, 73°F, 0.0787 in, 50% RH | 1.8 | % | |
| Viscosity Index - Sulfuric Acid | 3880 | in ³ /lb | ISO 307 |
| Mechanical | Nominal Value | Unit | Test Method |
| Tensile Modulus | 273000 | psi | ISO 527-1/1A/1 |
| Tensile Stress (Yield) | 6670 | psi | ISO 527-2/1A/50 |
| Flexural Modulus ² | 280000 | psi | ISO 178 |
| Flexural Stress ² | 10200 | psi | ISO 178 |
| Impact | Nominal Value | Unit | Test Method |
| Charpy Notched Impact Strength | | | ISO 179/1eA |
| -22°F | 15 | ft·lb/in ² | |
| 73°F | 30 | ft·lb/in ² | |
| Notched Izod Impact Strength | | | ISO 180/1A |
| -22°F | 11 | ft·lb/in ² | |
| 73°F | 30 | ft·lb/in ² | |
| Thermal | Nominal Value | Unit | Test Method |
| Melting Temperature ³ | 500 | °F | ISO 11357-3 |
| CLTE - Flow (73 to 131°F) | 3.8E-6 | in/in/°F | ISO 11359-2 |
| CLTE - Transverse (73 to 131°F) | 6.6E-6 | in/in/°F | ISO 11359-2 |

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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 | 527 to 563 | °F |
| Mold Temperature | 158 to 194 | °F |
| Injection Rate | Moderate | |

Notes

¹ Typical properties: these are not to be construed as specifications.

² 0.079 in/min

³ 10°C/min