

**Amodel® AE-1133 HFFR BK 324**

PPA-GF33

Syensqo

| Processing/Physical Characteristics | Value | Unit  | Test Standard |
|-------------------------------------|-------|-------|---------------|
| <b>ASTM Data</b>                    |       |       |               |
| Mold Shrinkage, MD                  | 0.42  | mm/mm | ASTM D 955    |
| Mold Shrinkage, TD                  | 1.1   | mm/mm | ASTM D 955    |

| Mechanical properties         | Value | Unit              | Test Standard |
|-------------------------------|-------|-------------------|---------------|
| <b>ISO Data</b>               |       |                   |               |
| Tensile Modulus               | 13000 | MPa               | ISO 527       |
| Tensile Strength              | 160   | MPa               | ISO 527       |
| Strain at break               | 2.1   | %                 | ISO 527       |
| Flexural strength             | 250   | MPa               | ISO 178       |
| Charpy impact strength, +23°C | 49    | kJ/m <sup>2</sup> | ISO 179/1eU   |

| Thermal properties  | Value | Unit        | Test Standard  |
|---|-------|-------------|----------------|
| <b>ISO Data</b>   |       |             |                |
| Melting temperature, 10°C/min                             | 310   | °C          | ISO 11357-1/-3 |
| Glass transition temperature, 10°C/min                    | 120   | °C          | ISO 11357-1/-2 |
| <b>Other Standards<sup>[5]</sup></b>                      |       |             |                |
| Burning behav. at 1.5 mm nom. thickn.<br>Thickness tested | V-0   | class<br>mm | UL 94<br>-     |
| Burning behav. at thickness h<br>Thickness tested         | V-0   | class<br>mm | UL 94<br>-     |

S: These properties are reported by the producer according standards that are different to our defaults.

| Electrical properties                | Value | Unit | Test Standard   |
|--------------------------------------|-------|------|-----------------|
| <b>Other Standards<sup>[5]</sup></b> |       |      |                 |
| Comparative tracking index           | 750   | -    | Producer Method |

S: These properties are reported by the producer according standards that are different to our defaults.

| Other properties | Value | Unit              | Test Standard |
|------------------|-------|-------------------|---------------|
| Density          | 1500  | kg/m <sup>3</sup> | ISO 1183      |

| Processing Recommendation Injection Molding | Value     | Unit | Test Standard |
|---|-----------|------|---------------|
| Pre-drying - Temperature                    | 120       | °C   | -             |
| Pre-drying - Time                           | 4         | h    | -             |
| Processing humidity                         | ≤0.06     | %    | -             |
| Melt temperature                            | 321 - 343 | °C   | -             |
| Mold temperature                            | 135       | °C   | -             |
| Zone 1                                      | 304 - 318 | °C   | -             |
| Zone 2                                      | 316 - 329 | °C   | -             |

**Characteristics****Processing**

Injection Molding

**Delivery form**

Pellets, Black

**Special Characteristics**

Flame retardant, Halogen-free, Heat stabilized or stable to heat

**Features**

Creep Resistance

**Chemical Resistance**

General Chemical Resistance

**Certifications**

RoHS compliant

**Applications**

Automotive, Electrical and Electronical

**Regional Availability**

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