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The information presented on the UL Prospector datasheet was acquired by UL Prospector from the producer of the material. UL Prospector makes substantial efforts to assure the accuracy of this data. However, UL Prospector assumes no responsibility for the data values and strongly encourages that upon final material selection, data points are validated with the material supplier.

Component - Plastics

E163907

Guide Information

View Certificate of Compliance

## Hyosung Chemical Corp

235, Banpo-daero, Seocho-gu, Seoul 06578 KR

## M33AA2Y

Polyketone (PK), furnished as pellets

| Color | Min. Thk (mm) | Flame Class | HWI | HAI | RTI Elec (°C) | RTI Imp (°C) | RTI Str (°C) |
|---|---|---|---|---|---|---|---|
| ALL | 0.8 | V-0 | 0 | 0 | 105 | 70 | 115 |
| | 1.6 | V-0 | 0 | 0 | 105 | 70 | 115 |
| | 3.0 | V-0 | 0 | 0 | 105 | 80 | 125 |

Comparative Tracking Index (CTI): 0

Dielectric Strength (kV/mm): 30.32

High-Voltage Arc Tracking Rate (HVTR): 2

Dimensional Change (%): -

Inclined Plane Tracking (IPT) kV: 1

Volume Resistivity ($10^X$ ohm-cm): 11

Surface Resistivity ($10^X$ ohms/square): -

High Volt, Low Current Arc Resis (D495): 4

ANSI/UL 94 small-scale test data does not pertain to building materials, furnishings and related contents. ANSI/UL 94 small-scale test data is intended solely for determining the flammability of plastic materials used in the components and parts of end-product devices and appliances, where the acceptability of the combination is determined by UL.

Report Date: 2022-01-17
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ALSO CERTIFIED TO IEC/ISO REQUIREMENTS

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**IEC and ISO Test Methods**

| Test Name | Test Method | Units | Thk (mm) | Value |
|---|---|---|---|---|
| Flammability | IEC 60695-11-10 | Class (color) | 0.8 | V-0 (ALL) |
| | | | 1.6 | V-0 (ALL) |
| | | | 3.0 | V-0 (ALL) |
| Glow-Wire Flammability (GWFI) | IEC 60695-2-12 | °C | 0.8 | 960 |
| | | | 3.0 | 960 |
| Glow-Wire Ignition (GWIT) | IEC 60695-2-13 | °C | 0.8 | 825 |
| | | | 3.0 | 825 |
| IEC Comparative Tracking Index | IEC 60112 | Volts (Max) | - | - |
| IEC AC Dielectric Strength (AC DS) | IEC 60243-1 | kV/mm | - | - |
| IEC DC Dielectric Strength (DC DS) | IEC 60243-2 | kV/mm | - | - |
| IEC Volume Resistivity (VR) | IEC 62631-3-1 | $10^X$ ohm-m | - | - |
| IEC Surface Resistivity (SR) | IEC 62631-3-2 | $10^X$ ohms | - | - |
| IEC Inclined Plane Tracking (IPT) | IEC 60587 | kV | - | - |
| IEC Ball Pressure | IEC 60695-10-2 | °C | - | 215 |
| ISO Heat Deflection (1.80 MPa) | ISO 75-2 | °C | 4.0 | 208.9 |
| ISO Tensile Strength | ISO 527-2 | MPa | - | - |
| ISO Flexural Strength | ISO 178 | MPa | - | - |
| ISO Tensile Impact | ISO 8256 | $kJ/m^2$ | - | - |
| ISO Izod Impact | ISO 180 | $kJ/m^2$ | - | - |
| ISO Charpy Impact | ISO 179-1 | $kJ/m^2$ | - | - |