

Loudspeakers

| Order code | Manufacturer code | Description | | |
|------------|-------------------|---------------------------------|--|--|
| 35-0150 | n/a | W/PROOF 66MM MYLAR SPEAKER (RC) | | |

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|--|--------------------------|
| The enclosed information is believed to be correct, Information may change without noticeqdue to product improvement. Users should ensure that the product is suitable for their use. E. & O. E. | Revision A 20/02/2007 |

W/PROOF 66MM MYLAR SPEAKER 35-0150

Mylar Cone

2.Features of LUMIRROR* for general industrial applications

(1)Mechanical properties

Lumirror* boasts one of the highest ten side strength among all plastic films, and even a 0.025mmthick Lumirror* sheet resists attempts to tear it by hand. This thin yet strong material enables electronic component manufacturers to produce high-performance products of smaller size and lighter weight. (table1)

(2)Electrical properties

With its high dielectric strength and heat resistance, Lumirror* is an ideal electrical insulation material, widely used in motor, transformer, and capacitor applications.

(table1) (3)High and low temperature resistance

"Lumirror's melting point is 260 °C , and it has a wide temperature range of-70 to +180 °C for operating and processing. These properties make "Lumirror' suitable for wide uses, and enable multiple steps of processing without compromising its properties.

(4)Chemical resistance

Lumirror* is resistant against almost all solvents and chemicals excluding strong alkalis. It boasts one of the highest chemical resistance among all plastic films.

(5)Moisture and water resistance

applications requiring anti-oxidant properties.

Lumirror's mechanical and chemical properties remain unchanged even when immersed in water, making it suitable for all industrial applications.

(6)Low gas transmission rate Lumirror* has a very low gas transmission rate compared to most other plastic films. This feature, combined with its strength and high/low temperature resistence. makes Lumirror* ideal as the base material in foodstuff packaging a pplications where long-term storage is required, and in other

(7)No plasticizer added

Due to the absence of additives such as plasticizer. Lumirror* under normal temperature and humidity will not deteriorate in quality or become brittle over time.

(table1)

(table2)

(table1)

(table1)

| <1 able 1: 1 | Properties of Lumirror | *> | | | |
|------------------------|---|-------|--|-----------------------------------|--|
| Property | Item | | Typical Values | Mesurement Standard | |
| Mechanica1 | Tensile strength | | 25kg/mm ² | ASTM D882 | |
| properties | Ultimate elongation | | 130% | ASTM D882 | |
| | Tensile modulus | | 400kg/mm ² | ASTM D882 | |
| | Initial tear strength Bursting strength Impact strength | | 22kg/20mm | ASTM D827 | |
| | | | 6kg/cm ² | ASTM D774 | |
| | | | 1000kg · cm/mm | - | |
| | Tear strength propagation | | 20g | ASTM D1938 | |
| | Flex crack resistance | | >120,000times | ASTM D2176 | |
| Electrical | Dielectric strength | | 310KV/mm | ASTM D149 | |
| properties | Dielectric constant | 1KHz | 3.3 | ASTM D150 | |
| | | 1 MHz | 3.2 | HJIIIDIJU | |
| | Dissipation factor | 1 KHz | 0.2% | ASTM D150 | |
| | | 1 MHz | 1.0% | HSHITETSO | |
| | Volume resistivity | | 10 ¹⁸ Ω • cm | ASTM D257 | |
| | Surface resistivity | | 10 ¹⁶ Ω | ASTM D257 | |
| Physica1 properties | Density | | 1.40g/cm ³ | ASTM D1505 | |
| | Melting point | | 265°C | JIS K7121 (DSC method) | |
| | Applicable temperature range (for reference) | | -70-+150°c | - | |
| | Moisture absorption | | 0.4% | Federal Test Method Sid No.406 | |
| | Hygroscopic expansion coefficient | | 1.2×10 ⁻⁵ cm/cm/%RH | - | |
| | Thermal expansion coefficient | | 1.5×10 ⁻⁵ cm/cm/*C | ASTM D696 | |
| | Thermal shrinkage coefficient | | 1.3%(150°C,30min) | ASTM D1204 | |
| | Water vapor transmission rate | | 6.9g/m ² 24hr/0.1mm | ASTM E96 | |
| | Oxygen transmission rate | | 19cc(NTP)/m ² / 24hr/0.1mm/atm | ASTM D1434 | |
| | Refractive index | | 1.66 | ASTM D542 | |
| | Light transmission rate | | 85% | ASTM D1003 | |

<Table 1: Properties of Lumirror*>

<Table 2: Chemical Resistance of Lumirror* (Strength retention ratio % at 30C)>

| Immersion days Chemical | 5 days | 10 days | 20 days | Result |
|----------------------------|--------|---------|---------|-----------|
| Glacial acetic acid | 91 | 90 | 91 | Excellent |
| 18% chloric acid | 100 | 94 | 92 | Excellent |
| 60% sulfuric acid | 100 | 91 | 99 | Excellent |
| 20% sulfuric acid | 92 | 92 | 90 | Excellent |
| Acetone | 97 | 94 | 98 | Excellent |
| Xylene | 94 | 93 | 93 | Excellent |
| Benzene | 81 | 90 | 91 | Excellent |
| 35% chloric acid | 97 | 85 | 84 | Good |
| 35% nitric acid | 100 | 92 | 87 | Good |
| 10% sodium hydroxide | 74 | 47 | 0 | Poor |
| 28% aqueous ammonia | 0 | 0 | 0 | Poor |
| 12% aqueous ammonia | 94 | 57 | 0 | Poor |