

# omay® V21

PC Film

Suzhou OMAY Optical Materials Co., Ltd

Message:

Polished/Matte  
Environmental, excellent flame retardance, excellent insulating

| General Information              |                       |                   |             |
|----------------------------------|-----------------------|-------------------|-------------|
| Features                         | Environmentally Sound |                   |             |
|                                  | Flame Retardant       |                   |             |
| UL File Number                   | E249605               |                   |             |
| Appearance                       | Matte Finish          |                   |             |
| Forms                            | Film                  |                   |             |
| Physical                         | Nominal Value         | Unit              | Test Method |
| Density                          | 1.20                  | g/cm <sup>3</sup> | ISO 1183    |
| Molding Shrinkage - Flow (150°C) | 0.50 to 0.70          | %                 | ASTM D1204  |
| Surface Tension                  | > 38                  | mN/m              |             |
| Pencil Hardness                  | 2B - B                |                   |             |
| Mechanical                       | Nominal Value         | Unit              | Test Method |
| Tensile Stress                   | 65.0                  | MPa               | ISO 527-2   |
| Tensile Strain (Break)           | > 100                 | %                 | ISO 527-2   |
| Flexural Modulus                 | 2400                  | MPa               | ISO 178     |
| Flexural Stress                  | 91.0                  | MPa               | ISO 178     |
| Thermal                          | Nominal Value         | Unit              | Test Method |
| Glass Transition Temperature     | 153                   | °C                | ISO 11357-2 |
| Vicat Softening Temperature      | 156                   | °C                | ISO 11357   |
| CLTE - Flow                      | 5.8E-5                | cm/cm/°C          | ISO 11359-2 |
| Thermal Conductivity             | 0.20                  | W/m/K             | ASTM D5470  |
| Electrical                       | Nominal Value         | Unit              | Test Method |
| Surface Resistivity              | 1.0E+16               | ohms              | ASTM D257   |
| Volume Resistivity               | 1.0E+17               | ohms · cm         | ASTM D257   |
| Dielectric Strength              | 30                    | kV/mm             | ASTM D149   |
| Comparative Tracking Index (CTI) | PLC 3                 |                   | UL 746      |
| Flammability                     | Nominal Value         | Unit              | Test Method |
|                                  | VTM-2                 |                   |             |
| Flame Rating                     | VTM-0                 |                   | UL 94       |

| Optical       | Nominal Value | Unit | Test Method |
|---------------|---------------|------|-------------|
| Transmittance | 86.0          | %    | ASTM D1003  |
| Haze          | 95            | %    | ASTM D1003  |

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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

