

# omay® U42-P

PC Film  
Suzhou OMAY Optical Materials Co., Ltd

Message:

Velvet/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                          | 1.23                  | g/cm <sup>3</sup> | ISO 1183    |
| Surface Tension                  | > 38                  | mN/m              |             |
| Pencil Hardness                  | 2B - B                |                   |             |
| Mechanical                       | Nominal Value         | Unit              | Test Method |
| Tensile Stress                   | 62.0                  | MPa               | ISO 527-2   |
| Tensile Strain (Break)           | > 100                 | %                 | ISO 527-2   |
| Flexural Modulus                 | 2300                  | MPa               | ISO 178     |
| Flexural Stress                  | 91.0                  | MPa               | ISO 178     |
| Thermal                          | Nominal Value         | Unit              | Test Method |
| Glass Transition Temperature     | 125                   | °C                | ISO 11357-2 |
| Vicat Softening Temperature      | 135                   | °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 |
|                                  | V-0                   |                   |             |
| Flame Rating                     | VTM-0                 |                   | UL 94       |
| Optical                          | Nominal Value         | Unit              | Test Method |

|               |      |   |            |
|---------------|------|---|------------|
| Transmittance | 75.0 | % | ASTM D1003 |
| Haze          | 93   | % | ASTM D1003 |

The information and data on this page are provided by manufacturers and document providers. SHANGHAI SUSHENG assumes no legal liability. It is strongly recommended to verify all technical data with material suppliers before final material selection. All rights belong to the original authors. If any infringement occurs, please contact us immediately.

Recommended distributors for this material

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

