

# XANTAR® LDS 3764

Polycarbonate  
Mitsubishi Engineering-Plastics Corp

Message:  
Laser Direst Structuring (LDS), Flame Retardant (Halogen free), High Flow

| General Information                               |                          |                        |             |
|---------------------------------------------------|--------------------------|------------------------|-------------|
| Additive                                          | Flame retardancy         |                        |             |
| Features                                          | High liquidity           |                        |             |
|                                                   | Halogen-free             |                        |             |
|                                                   | Flame retardancy         |                        |             |
| Uses                                              | Laser Direct Structuring |                        |             |
| Forms                                             | Particle                 |                        |             |
| Physical                                          | Nominal Value            | Unit                   | Test Method |
| Density                                           | 1.27                     | g/cm <sup>3</sup>      | ISO 1183    |
| Melt Volume-Flow Rate (MVR) (260°C/5.0 kg)        | 26.0                     | cm <sup>3</sup> /10min | ISO 1133    |
| shrinkage-Flow                                    | 0.60                     | %                      | ISO 294-4   |
| Water Absorption (Equilibrium, 23°C, 50% RH)      | 0.35                     | %                      | ISO 62      |
| Mechanical                                        | Nominal Value            | Unit                   | Test Method |
| Tensile Modulus                                   | 2500                     | MPa                    | ISO 527-2   |
| Tensile Stress (Yield)                            | 60.0                     | MPa                    | ISO 527-2   |
| Tensile Strain (Yield)                            | 5.0                      | %                      | ISO 527-2   |
| Nominal Tensile Strain at Break                   | > 50                     | %                      | ISO 527-2   |
| Flexural Modulus                                  | 2400                     | MPa                    | ISO 178     |
| Flexural Stress                                   | 90.0                     | MPa                    | ISO 178     |
| Impact                                            | Nominal Value            | Unit                   | Test Method |
| Charpy Notched Impact Strength                    |                          |                        | ISO 179/1eA |
| -30°C                                             | 20                       | kJ/m <sup>2</sup>      | ISO 179/1eA |
| 23°C                                              | 50                       | kJ/m <sup>2</sup>      | ISO 179/1eA |
| Charpy Unnotched Impact Strength                  |                          |                        | ISO 179/1eU |
| -30°C                                             | No Break                 |                        | ISO 179/1eU |
| 23°C                                              | No Break                 |                        | ISO 179/1eU |
| Notched Izod Impact                               |                          |                        | ISO 180/4A  |
| -20°C                                             | 20                       | kJ/m <sup>2</sup>      | ISO 180/4A  |
| 23°C                                              | 55                       | kJ/m <sup>2</sup>      | ISO 180/4A  |
| Thermal                                           | Nominal Value            | Unit                   | Test Method |
| Heat Deflection Temperature (1.8 MPa, Unannealed) | 104                      | °C                     | ISO 75-2/A  |

| Vicat Softening Temperature      | 110           | °C      | ISO 306/B50          |
|----------------------------------|---------------|---------|----------------------|
| Electrical                       | Nominal Value | Unit    | Test Method          |
| Surface Resistivity              | > 1.0E+15     | ohms    | IEC 60093            |
| Volume Resistivity               | > 1.0E+15     | ohms·cm | IEC 60093            |
| Relative Permittivity (1.00 GHz) | 3.00          |         | IEC 60250            |
| Dissipation Factor (1.00 GHz)    | 5.0E-3        |         | IEC 60250            |
| Flammability                     | Nominal Value | Unit    | Test Method          |
| Flammability Classification      |               |         | IEC 60695-11-10, -20 |
| 1.5 mm                           | V-0           |         | IEC 60695-11-10, -20 |
| 1.0 mm                           | V-1           |         | IEC 60695-11-10, -20 |

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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



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