

# Starflam PK0049

Polyamide 6  
Eurostar Engineering Plastics

Message:  
Starflam PK0049E is a Flame Retardant, Mineral Filled, Polyamide 6 Injection Molding Resin

| General Information                                |                   |                   |                 |
|----------------------------------------------------|-------------------|-------------------|-----------------|
| Filler / Reinforcement                             | Mineral           |                   |                 |
| Features                                           | Flame Retardant   |                   |                 |
| RoHS Compliance                                    | RoHS Compliant    |                   |                 |
| Processing Method                                  | Injection Molding |                   |                 |
| Physical                                           | Nominal Value     | Unit              | Test Method     |
| Density                                            | 1.54              | g/cm <sup>3</sup> | ISO 1183        |
| Molding Shrinkage - Flow (4.00 mm)                 | 1.0               | %                 | Internal Method |
| Water Absorption (23°C, 24 hr)                     | 1.0               | %                 | ISO 62          |
| Mechanical                                         | Nominal Value     | Unit              | Test Method     |
| Tensile Modulus                                    | 5800              | MPa               | ISO 527-2/1     |
| Tensile Stress (Break)                             | 64.0              | MPa               | ISO 527-2/5     |
| Tensile Strain (Break)                             | 1.9               | %                 | ISO 527-2/5     |
| Flexural Modulus <sup>1</sup>                      | 5200              | MPa               | ISO 178         |
| Flexural Stress                                    | 103               | MPa               | ISO 178         |
| Flexural Strain at Break <sup>2</sup>              | 2.8               | %                 | ISO 178         |
| Impact                                             | Nominal Value     | Unit              | Test Method     |
| Notched Izod Impact Strength <sup>3</sup> (23°C)   | 4.0               | kJ/m <sup>2</sup> | ISO 180/1A      |
| Unnotched Izod Impact Strength <sup>4</sup> (23°C) | 20                | kJ/m <sup>2</sup> | ISO 180/1U      |
| Thermal                                            | Nominal Value     | Unit              | Test Method     |
| Heat Deflection Temperature <sup>5</sup>           |                   |                   |                 |
| 0.45 MPa, Unannealed, 64.0 mm Span                 | 179               | °C                | ISO 75-2/Bf     |
| 1.8 MPa, Unannealed, 64.0 mm Span                  | 102               | °C                | ISO 75-2/Af     |
| CLTE                                               |                   |                   | ISO 11359-2     |
| Flow : 23 to 60°C                                  | 5.3E-5            | cm/cm/°C          |                 |
| Transverse : 23 to 60°C                            | 9.4E-5            | cm/cm/°C          |                 |
| Flammability                                       | Nominal Value     | Test Method       |                 |
| Flame Rating (1.60 mm, Tested by E2P)              | V-0               | UL 94             |                 |
| Injection                                          | Nominal Value     | Unit              |                 |
| Drying Temperature                                 | 80.0              | °C                |                 |
| Drying Time                                        | 4.0               | hr                |                 |
| Suggested Max Moisture                             | 0.20              | %                 |                 |
| Rear Temperature                                   | 240 to 250        | °C                |                 |
| Middle Temperature                                 | 250 to 260        | °C                |                 |

|                        |              |    |
|------------------------|--------------|----|
| Front Temperature      | 250 to 270   | °C |
| Processing (Melt) Temp | 250 to 270   | °C |
| Mold Temperature       | 50.0 to 90.0 | °C |

| NOTE |            |  |
|------|------------|--|
| 1.   | 2.0 mm/min |  |
| 2.   | 2.0 mm/min |  |
| 3.   | 80*10*4    |  |
| 4.   | 80*10*4    |  |
| 5.   | 80*10*4    |  |

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



WECHAT