

# Polygen SC75D

Polyphenylene Sulfide

Shanghai Polygen Science and Technology Co., Ltd.

## Message:

glass/mineral filled PPS, lower cost, good strength, dimensional stability, excellent heat and chemical resistance

| General Information                               |                            |                   |             |
|---------------------------------------------------|----------------------------|-------------------|-------------|
| Filler / Reinforcement                            | Glass \Mineral             |                   |             |
| Features                                          | Good dimensional stability |                   |             |
|                                                   | Good strength              |                   |             |
|                                                   | Good chemical resistance   |                   |             |
|                                                   | Heat resistance, high      |                   |             |
| Appearance                                        | Natural color              |                   |             |
| Physical                                          | Nominal Value              | Unit              | Test Method |
| Density                                           | 1.89                       | g/cm <sup>3</sup> | ISO 1183    |
| Molding Shrinkage                                 |                            |                   | ISO 294-4   |
| Transverse flow                                   | 0.40                       | %                 | ISO 294-4   |
| Flow                                              | 0.20                       | %                 | ISO 294-4   |
| Water Absorption (Saturation, 23°C)               | 0.020                      | %                 | ISO 62      |
| Mechanical                                        | Nominal Value              | Unit              | Test Method |
| Tensile Stress                                    | 120                        | MPa               | ISO 527-2   |
| Tensile Strain (Break)                            | 1.2                        | %                 | ISO 527-2   |
| Flexural Modulus                                  | 18000                      | MPa               | ISO 178     |
| Flexural Stress                                   | 210                        | MPa               | ISO 178     |
| Impact                                            | Nominal Value              | Unit              | Test Method |
| Notched Izod Impact                               | 7.0                        | kJ/m <sup>2</sup> | ISO 180     |
| Thermal                                           | Nominal Value              | Unit              | Test Method |
| Heat Deflection Temperature (1.8 MPa, Unannealed) | 265                        | °C                | ISO 75-2/A  |
| Electrical                                        | Nominal Value              | Unit              | Test Method |
| Comparative Tracking Index                        | 175                        | V                 | IEC 60112   |
| Flammability                                      | Nominal Value              | Unit              | Test Method |
| Flame Rating                                      | V-0                        |                   | UL 94       |
| Injection                                         | Nominal Value              | Unit              |             |
| Drying Temperature                                | 120 - 140                  | °C                |             |
| Drying Time                                       | 2.0 - 4.0                  | hr                |             |
| Processing (Melt) Temp                            | 290 - 320                  | °C                |             |
| Mold Temperature                                  | 130 - 150                  | °C                |             |

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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

