

# Deltron 5365

Polyphenylene Sulfide

Shanghai Lin Gen Rubber Materials Co., Ltd.

Message:

Deltron 5365 is a polyphenylene sulfide (PPS) material. This product is available in the Asia-Pacific region and is processed by injection molding. The main features of the Deltron 5365 are:  
flame retardant/rated flame  
Wear-resistant

| General Information                                     |                      |                   |
|---------------------------------------------------------|----------------------|-------------------|
| Features                                                | Good wear resistance |                   |
| Processing Method                                       | Injection molding    |                   |
| Physical                                                | Nominal Value        | Unit              |
| Specific Gravity                                        | 1.80                 | g/cm <sup>3</sup> |
| Molding Shrinkage - Flow                                | 0.20 - 0.50          | %                 |
| Water Absorption (Equilibrium)                          | 0.020                | %                 |
| Hardness                                                | Nominal Value        | Unit              |
| Rockwell Hardness (R-Scale)                             | 100                  |                   |
| Mechanical                                              | Nominal Value        | Unit              |
| Tensile Strength                                        | 130                  | MPa               |
| Tensile Elongation (Break)                              | 1.6                  | %                 |
| Flexural Modulus                                        | 12000                | MPa               |
| Flexural Strength                                       | 190                  | MPa               |
| Compressive Strength                                    | 150                  | MPa               |
| Impact                                                  | Nominal Value        | Unit              |
| Notched Izod Impact                                     | 9.00                 | kJ/m <sup>2</sup> |
| Thermal                                                 | Nominal Value        | Unit              |
| Deflection Temperature Under Load (1.8 MPa, Unannealed) | 265                  | °C                |
| Melting Temperature                                     | 285                  | °C                |
| CLTE - Flow                                             | 1.9E-5               | cm/cm/°C          |
| Electrical                                              | Nominal Value        | Unit              |
| Surface Resistivity                                     | 1.2E+14              | ohms              |
| Volume Resistivity                                      | 2.5E+16              | ohms · cm         |
| Dielectric Strength                                     | 15                   | kV/mm             |
| Dielectric Constant (1 MHz)                             | 3.20                 |                   |
| Flammability                                            | Nominal Value        | Unit              |
| Flame Rating (2.0 mm)                                   | V-0                  |                   |
| Injection                                               | Nominal Value        | Unit              |
| Drying Temperature                                      | 120 - 140            | °C                |
| Drying Time                                             | 4.0 - 8.0            | hr                |

|                    |             |     |
|--------------------|-------------|-----|
| Rear Temperature   | 240 - 260   | °C  |
| Middle Temperature | 290 - 310   | °C  |
| Front Temperature  | 300 - 330   | °C  |
| Mold Temperature   | 100 - 140   | °C  |
| Injection Rate     | Moderate    |     |
| Back Pressure      | 60.0 - 80.0 | MPa |

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