

# SUSTATRON PPS MOD

Polyphenylene Sulfide  
Röchling Sustaplast SE & Co. KG

Message:

Product characteristics  
High mechanical strength  
High heat deflection temperature  
Very high chemical resistance  
Typical fields of application  
Mechanical engineering  
Conveyor technology  
Packing industry

| General Information                          |                          |                   |             |
|----------------------------------------------|--------------------------|-------------------|-------------|
| Features                                     | Good Chemical Resistance |                   |             |
|                                              | High Strength            |                   |             |
| Uses                                         | Conveyors                |                   |             |
|                                              | Engineered Applications  |                   |             |
| Physical                                     | Nominal Value            | Unit              | Test Method |
| Density                                      | 1.38                     | g/cm <sup>3</sup> | ISO 1183    |
| Water Absorption (Equilibrium, 23°C, 50% RH) | 0.030                    | %                 | ISO 62      |
| Hardness                                     | Nominal Value            | Unit              | Test Method |
| Shore Hardness (Shore D)                     | 77                       |                   | ISO 868     |
| Ball Indentation Hardness                    | 130                      | MPa               | ISO 2039-1  |
| Mechanical                                   | Nominal Value            | Unit              | Test Method |
| Tensile Modulus                              | 3000                     | MPa               | ISO 527-2   |
| Tensile Stress (Yield)                       | 50.0                     | MPa               | ISO 527-2   |
| Tensile Strain (Break)                       | 4.0                      | %                 | ISO 527-2   |
| Impact                                       | Nominal Value            | Unit              | Test Method |
| Charpy Notched Impact Strength               | 5.0                      | kJ/m <sup>2</sup> | ISO 179     |
| Thermal                                      | Nominal Value            | Unit              | Test Method |
| Continuous Use Temperature                   |                          |                   |             |
| -- 1                                         | -20.0 to 220             | °C                |             |
| -- 2                                         | < 260                    | °C                |             |
| Melting Temperature                          | 285                      | °C                | ISO 11357-3 |
| CLTE - Flow                                  | 5.0E-5                   | cm/cm/°C          | DIN 53752   |
| Flammability                                 | Nominal Value            |                   | Test Method |
| Flame Rating                                 |                          |                   | UL 94       |
| 3.00 mm                                      | V-0                      |                   |             |
| 6.00 mm                                      | V-0                      |                   |             |

## NOTE

- |    |            |
|----|------------|
| 1. | Long Term  |
| 2. | Short Term |

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