

# FORTRON<sup>®</sup> SKX-9039 (PRELIMINARY)

## Polyphenylene sulfide

### Product information

Resin Identification	PPS	ISO 1043
Part Marking Code	>PPS<	ISO 11469

### Typical mechanical properties

Tensile modulus	3100 MPa	ISO 527-1/-2
Tensile stress at yield, 50mm/min	65 MPa	ISO 527-1/-2
Tensile stress at break, 50mm/min	60 MPa	ISO 527-1/-2
Tensile strain at break, 50mm/min	35 %	ISO 527-1/-2
Flexural modulus	3100 MPa	ISO 178
Flexural strength	110 MPa	ISO 178
Compressive modulus	2000 MPa	ISO 604
Compressive strength	90 MPa	ISO 604
Charpy impact strength, 23°C	5 kJ/m <sup>2</sup>	ISO 179/1eU
Poisson's ratio	0.37 <sup>[C]</sup>	

[C]: Calculated

### Thermal properties

Melting temperature, 10°C/min	280 °C	ISO 11357-1/-3
Glass transition temperature, 10°C/min	90 °C	ISO 11357-1/-3
Temperature of deflection under load, 1.8 MPa	100 °C	ISO 75-1/-2
Coefficient of linear thermal expansion (CLTE), parallel	70 E-6/K	ISO 11359-1/-2
Coefficient of linear thermal expansion (CLTE), normal	75 E-6/K	ISO 11359-1/-2

### Electrical properties

Volume resistivity	>1E13 Ohm.m	IEC 62631-3-1
Surface resistivity	>1E15 Ohm	IEC 62631-3-2
Electric strength	20 kV/mm	IEC 60243-1

### Injection

Drying Recommended	yes
Drying Temperature	130 °C
Drying Time, Dehumidified Dryer	2 - 4 h
Processing Moisture Content	≤0.02 %
Melt Temperature Optimum	330 °C
Min. melt temperature	310 °C
Max. melt temperature	340 °C
Screw tangential speed	0.2 - 0.3 m/s
Mold Temperature Optimum	120 °C
Min. mould temperature	80 °C
Max. mould temperature	160 °C
Hold pressure range	30 - 70 MPa

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## Characteristics

Processing

Injection Moulding

Delivery form

Pellets