Celanese
The chemistry inside innovation™

FORTRON® 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/m²	ISO 179/1eU
Poisson's ratio	0.37[C]		

[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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Processing	Injection Moulding
Delivery form	Pellets

Revised: 2025-03-20 Source: Celanese Materials Database