

CELCON® NX-20 LOF

CELCON®

A friction and wear resistance grade for general injection molding. Emission optimized.

Product information

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

Rheological properties

Melt mass-flow rate	13 g/10min	ISO 1133
Melt mass-flow rate, Temperature	190 °C	
Melt mass-flow rate, Load	2.16 kg	
Moulding shrinkage, parallel	2.0 %	ISO 294-4, 2577

Typical mechanical properties

Tensile stress at yield, 50mm/min	55 MPa	ISO 527-1/-2
Nominal strain at break	18 %	ISO 527-1/-2
Flexural modulus	2350 MPa	ISO 178
Flexural strength	76 MPa	ISO 178
Charpy notched impact strength, 23°C	3.4 kJ/m ²	ISO 179/1eA

Thermal properties

Melting temperature, 10°C/min	165 °C	ISO 11357-1/-3
Temperature of deflection under load, 1.8 MPa	90 °C	ISO 75-1/-2

Electrical properties

Volume resistivity	1E12 Ohm.m	IEC 62631-3-1
Surface resistivity	1E16 Ohm	IEC 62631-3-2

Physical/Other properties

Density	1380 kg/m ³	ISO 1183
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Injection

Drying Recommended	no
Drying Temperature	100 °C
Drying Time, Dehumidified Dryer	3 - 4 h
Processing Moisture Content	≤0.2 %
Melt Temperature Optimum	185 °C
Min. melt temperature	180 °C
Max. melt temperature	190 °C
Screw tangential speed	≤0.3 m/s
Mold Temperature Optimum	70 °C
Min. mould temperature	60 °C
Max. mould temperature	80 °C
Hold pressure range	60 - 120 MPa

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Characteristics

Processing

Injection Moulding

Delivery form

Pellets

Special characteristics

Low wear / Low friction, Low emissions