

Product description

Poly(p-phenylene oxide)/Polyamide 66

Unreinforced, toughened, PPE, high performance PPO/PA blend

SenTherm 201-02 LF 1 is a high-performance thermally conductive resin for extrusion.

Product applications

SenTherm 201-02 LF 1 is a novel thermally conductive extrusion grade polymer. Designed to meet market demand in large metal component replacement. SenTherm 201-02 LF 1 meets the demand of harsh environments, thermal cycling, water contact and high temperature.

Product Information

Resin Identification

PPE/ PA66

ISO 1043

Rheological properties¹⁾

Properties	Method	Unit	Typical Value*
<i>Mould shrinkage, parallel²⁾</i>	ISO 294-4, 2577	%	0.5
<i>Mould shrinkage, transversal²⁾</i>	ISO 294-4, 2577	%	0.7

Characteristics¹⁾

Properties	Method	Unit	Typical Value*
Density	ISO 1183	Kg/m ³	1250
Melt flow rate 280°C @ 10kg	ISO1133/T	g/10 min	12
Thermal conductivity (Injection moulded)	ASTM D7984	W/mK	1
Thermal conductivity (Compression moulded)	ASTM D7984	W/mK	2
Tensile modulus (50mm/min)	ISO 527	MPa	2500
Tensile strength (50mm/min)	ISO 527	MPa	61
Strain at break	ISO 527	%	12

Characteristics¹⁾

Properties	Method	Unit	Typical Value*
Flexural modulus	ISO 178	MPa	3800
<i>Charpy impact (23°C)</i>	<i>ISO 180/1A</i>	<i>Kj/m²</i>	12

Injection¹⁾

Properties	Unit	Typical Value*
Drying recommended		Yes
Drying temperature	°C	100-120
Drying time, dehumidified oven	Hours	4
Process moisture content	%	0.15
Melt temperature	°C	290
Min melt temperature	°C	285
Max melt temperature	°C	300
Min mould temperature	°C	-
Max mould temperature	°C	-
Ejection temperature	°C	

- 1) The information stated on technical data sheets should be used as indicative only for material selection and not utilised for specifications or part and tool design.
- 2) Measurements have been estimated from moulded laboratory parts; actual shrinkage may be outside these parameters. This is dependant on mould conditions and parameters. Our recommendation is using legacy tooling before cutting on a new moulding tool.

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