

## Technical Data Sheet



### TEDUR L 9107-1

(Last update: 11.10.2024)



Base Polymer	Polyphenylene Sulphide
Filler/Additive System	40 % glass fibres
Special Features	injection moulding grade, high toughness, reduced flash, increased burst strength
Application Area	pump components
Typical Applications	pump impellers

Pre-Drying Conditions	in a dry air (desiccant) dryer 130-140 °C for 2-4 h dependant on moisture content
Processing Injection Moulding	melt temperature 320-340 °C mould temperature >140 °C
Storage	dry, protected from light

Properties	Value	Dimension	Test Norm
<b>Mechanical Properties</b>			
Flexural Modulus	13500	MPa	ISO 178
Flexural Strength	260	MPa	ISO 178
Flexural Deflection (Maximum Force)	2.2	%	ISO 178
Tensile Modulus	15000	MPa	ISO 527
Tensile Strength at Break	190	MPa	ISO 527
Tensile Elongation at Break	1.7	%	ISO 527
Impact Strength (Charpy, 23 °C)	55	kJ/m <sup>2</sup>	ISO 179/1eU
<b>Thermal Properties</b>			
HDT / A (1,8 MPa)	270	°C	ISO 75-1/-2
DSC (Melt Point)	280	°C	ISO 11357
<b>Electrical Properties</b>			
Surface Resistance	1E12	Ohm	DIN EN 62631-3-2
<b>Rheological Properties</b>			
Shrinkage (lengthwise, 24h)	0.1 - 0.3	%	ISO 294-4
Shrinkage (lateral, 24h)	0.4 - 0.6	%	ISO 294-4
<b>Physical Properties</b>			
Density	1650	kg/m <sup>3</sup>	ISO 1183
<b>Flammability</b>			
Flammability (0.75 mm)	V-0	class	UL 94

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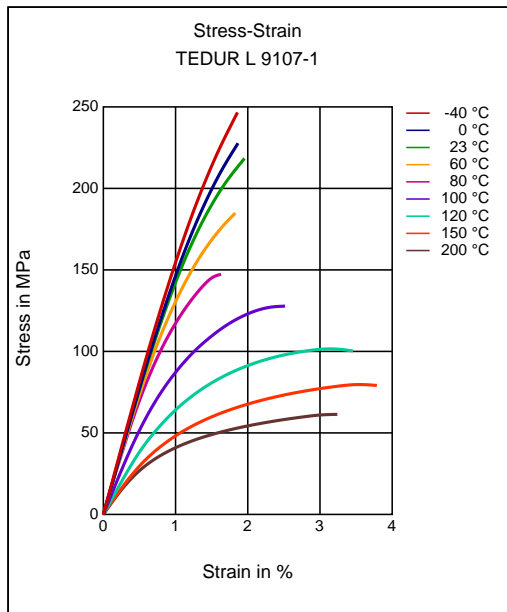


Yellow Card available  
Glow Wire (GWFI, 960 °C, 2.0mm)

yes	-	-
passed	-	DIN EN 60695

## Diagrams

### Stress-Strain



### Liability Exclusion

These are guide values and not a specification. The test values mentioned are representative values only and not binding minimum or maximum figures. These test values have been determined on standardised test specimens and can be affected by pigmentation, mould design and processing conditions.

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