



# PEEK ZOVGOV<sup>®</sup> M550GL20

Test Item	Test Method	Conditions	Units	Test Data
<b>Mechanical Data</b>				
Tensile Strength	ISO 527	Break, 23°C	MPa	155
Tensile Elongation	ISO 527	Break, 23°C	%	3.3
Flexural Strength	ISO 178	Break, 23°C	MPa	245
Flexural Modulus	ISO 178	23°C	GPa	8.8
Compressive Strength	ISO 604	23°C	MPa	-
Charpy Impact Strength	ISO 179/1eA	Notched	kJ m <sup>-2</sup>	7
	ISO 179/1U	Unnotched	kJ m <sup>-2</sup>	45
Izod Impact Strength	ISO 180/A	Notched	kJ m <sup>-2</sup>	7.5
	ISO 180/U	Unnotched	kJ m <sup>-2</sup>	60
Mould Shrinkage	ISO 294-4	Along Flow	%	0.3
		Across Flow	%	0.8
<b>Thermal Data</b>				
Melting Point	ISO 11357	-	°C	343
Glass Transition (Tg)	ISO 11357	Onset	°C	143
Special Heat Capacity	DSC	23°C	kJ kg <sup>-1</sup> °C <sup>-1</sup>	1.7
Coefficient of Thermal Expansion	ISO 11359	Along flow below Tg	ppm K <sup>-1</sup>	20
		Along flow above Tg	ppm K <sup>-1</sup>	22
Heat Deflection Temperature	ISO 75	1.8 Mpa	°C	315
Thermal Conductivity	ISO 22007-4	23°C	W m <sup>-1</sup> K <sup>-1</sup>	0.3
<b>Flow</b>				
Melt Index	ISO 1133	380°C,5kg	g 10min <sup>-1</sup>	11
<b>Miscellaneous</b>				
Density	ISO 1183	Crystalline	g cm <sup>-3</sup>	1.43
		Amorphous	g cm <sup>-3</sup>	-
Shore D Hardness	ISO 868	23°C		86
Water Absorption (3.2mm thick Tensile Bar) (by immersion)	ISO 62	24h, 23°C	%	0.05
		Equilibrium, 23°C	%	0.4



## Electrical Data

Dielectric Strength	IEC 60243-1	2mm	kV mm <sup>-1</sup>	24
Comparative Tracking Index	IEC 60112	-	V	150
Dielectric Constant	IEC 60250	23°C, 1kHz	-	3.1
		23°C, 50Hz	-	-
Loss Tangent	IEC 60250	23°C, 1MHz	-	0.005
Volume Resistivity	IEC 60093	23°C, 1V	Ω cm	10 <sup>16</sup>
		275°C	Ω cm	-

\*Result based on similar products