



# PEEK ZOVGOV® M770CA20

Test Item	Test Method	Conditions	Units	Test Data
<b>Mechanical Data</b>				
Tensile Strength	ISO 527	Break, 23°C	MPa	210
Tensile Elongation	ISO 527	Break, 23°C	%	2.1
Flexural Strength	ISO 178	Break, 23°C	MPa	310
Flexural Modulus	ISO 178	23°C	GPa	16
Compressive Strength	ISO 604	23°C	MPa	-
Charpy Impact Strength	ISO 179/1eA	Notched	$\text{kJ m}^{-2}$	7
	ISO 179/1U	Unnotched	$\text{kJ m}^{-2}$	45
Izod Impact Strength	ISO 180/A	Notched	$\text{kJ m}^{-2}$	8
	ISO 180/U	Unnotched	$\text{kJ m}^{-2}$	40
Mould Shrinkage	ISO 294-4	Along Flow	%	0.2
		Across Flow	%	0.7
<b>Thermal Data</b>				
Melting Point	ISO 11357	-	°C	343
Glass Transition (Tg)	ISO 11357	Onset	°C	143
Special Heat Capacity	DSC	23°C	$\text{kJ kg}^{-1} \text{°C}^{-1}$	1.8
Coefficient of Thermal Expansion	ISO 11359	Along flow below Tg	$\text{ppm K}^{-1}$	8
		Along flow above Tg	$\text{ppm K}^{-1}$	8
Heat Deflection Temperature	ISO 75	1.8 Mpa	°C	325
Thermal Conductivity	ISO 22007-4	23°C	$\text{W m}^{-1} \text{K}^{-1}$	0.95
<b>Flow</b>				
Melt Index	ISO 1133	380°C,5kg	$\text{g 10min}^{-1}$	4
<b>Miscellaneous</b>				
Density	ISO 1183	Crystalline	$\text{g cm}^{-3}$	1.37
		Amorphous	$\text{g cm}^{-3}$	-
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>	-
Comparative Tracking Index	IEC 60112	-	V	-
Dielectric Constant	IEC 60250	23°C, 1kHz	-	-
		23°C, 50Hz	-	-
Loss Tangent	IEC 60250	23°C, 1MHz	-	-
Volume Resistivity	IEC 60093	23°C, 1V	Ω cm	10 <sup>7</sup>
		275°C	Ω cm	-

\*Result based on similar products