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**Iupital -Basic Properties-**

				Reinforced/Filled-1
Properties	Test Method	Terms	Units	FG2025 Glassfiber Reinforced Glassfiber 25%
<b>Physical properties</b>				
Density	ISO 1183	-	g/cm <sup>3</sup>	1.59
Water absorption	-	23degC, 60%RH	%	0.20
<b>Rheological properties</b>				
Melt Mass-flow Rate	ISO 1133	Temperature Load	g/10min	9.0
Melt Volume-flow Rate			cm <sup>3</sup> /10min	6.3
			degC	190
			kg	2.16
Moulding shrinkage (3mmt)	-	MD TD	%	0.6 -
<b>Mechanical properties</b>				
Tensile modulus	ISO 527-1 , 527-2	-	MPa	10000
Yield stress			-	
Yield strain			%	-
Nominal strain at break			-	
Stress at break			MPa	140
Strain at break			%	3.0
Flexural strength	ISO 178	-	MPa	210
Flexural modulus			9100	
Charpy impact strength	ISO 179-1 , 179-2	23 degC	kJ/m <sup>2</sup>	60
Charpy notched impact strength		23 degC	kJ/m <sup>2</sup>	9.0
<b>Thermal properties</b>				
Melting temperature	ISO 11357-3		degC	166
Temperature of deflection under load	ISO 75-1 , 75-2	1.80MPa	degC	162
		0.45MPa	164	
Coefficient of Linear thermal expansion	ISO 11359-2	MD	1/degC	3.0E-05
		TD	1.1E-04	
Flammability	UL94	0.8mmt	-	HB
<b>Electrical properties</b>				
Relative permittivity	IEC 60250	100Hz	-	4.1
		1MHz	-	4.1
Dissipation factor	IEC 60250	100Hz	-	0.003
		1MHz	-	0.008
Volume resistivity	IEC 60093	-	ohm-m	1.E+12
Surface resistivity	IEC 60093	-	ohm	1.E+16
Electric strength	IEC 602431	1mmt	MV/m	25
		3mmt	16	

Comparative tracking index	IEC 60112	-	-	600
Note				
<b>Molding conditions -Examples of recommended molding conditions are shown below.-</b>				
Drying of feedstock resin				Hot air drying at 80°C ---about 3-4 hours
Cylinder temp (rear)			°C	180
Cylinder temp (center)			°C	190
Cylinder temp (front)			°C	200
Nozzle temp			°C	180-210
Mold temp			°C	60-100
Injection pressure			MPa	50-100
Screw rotation			rpm	80-120
Injection speed			-	middle

The listed properties are portrayed as general information only and are not product specifications.  
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#### Product Info.



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