

**Tislamid® A 50D03 K04 R01**

PA6-GF50

Tisan Engineering Plastics Co.Ltd.

<b>Processing/Physical Characteristics</b>	<b>Value</b>	<b>Unit</b>	<b>Test Standard</b>
<b>ISO Data</b>			
Molding shrinkage, parallel	<b>0.1</b>	%	ISO 294-4, 2577
Molding shrinkage, normal	<b>0.2</b>	%	ISO 294-4, 2577
<b>Mechanical properties</b>			
<b>ISO Data</b>			
Tensile Modulus	<b>13500</b>	MPa	ISO 527
Stress at break	<b>195</b>	MPa	ISO 527
Strain at break	<b>2.5</b>	%	ISO 527
Izod impact strength, +23°C	<b>N</b>	kJ/m <sup>2</sup>	ISO 180/1U
Izod notched impact strength, +23°C	<b>21</b>	kJ/m <sup>2</sup>	ISO 180/1A
Izod notched impact strength Temperature	<b>19</b> <b>-30</b>	kJ/m <sup>2</sup> °C	ISO 180/1A -
<b>Thermal properties</b>			
<b>ISO Data</b>			
Melting temperature, 10°C/min	<b>223</b>	°C	ISO 11357-1/-3
Temp. of deflection under load, 1.80 MPa	<b>210</b>	°C	ISO 75-1/-2
Temp. of deflection under load, 0.45 MPa	<b>220</b>	°C	ISO 75-1/-2
Vicat softening temperature, B	<b>210</b>	°C	ISO 306
Burning behav. at 1.5 mm nom. thickn. Thickness tested	<b>HB</b> <b>1.6</b>	class mm	IEC 60695-11-10 -
Burning behav. at thickness h Thickness tested	<b>HB</b> <b>0.8</b>	class mm	IEC 60695-11-10 -
<b>Electrical properties</b>			
<b>ISO Data</b>			
Volume resistivity	<b>1E13</b>	Ohm*m	IEC 62631-3-1
Surface resistivity	<b>1E13</b>	Ohm	IEC 62631-3-2
Comparative tracking index	<b>500</b>	-	IEC 60112
<b>Other properties</b>			
Density	<b>1540</b>	kg/m <sup>3</sup>	ISO 1183
Moisture Content	<b>0.2</b>	%	-
<b>Processing Recommendation Injection Molding</b>			
Pre-drying - Temperature	<b>90 - 100</b>	°C	-
Pre-drying - Time	<b>3 - 4</b>	h	-
Processing humidity	<b>≤0.2</b>	%	-
Melt temperature	<b>230 - 250</b>	°C	-
Mold temperature	<b>60 - 100</b>	°C	-
Zone 1	<b>220 - 240</b>	°C	-
Zone 2	<b>220 - 240</b>	°C	-
Zone 3	<b>220 - 240</b>	°C	-
Nozzle temperature	<b>210 - 230</b>	°C	-
Back pressure	<b>50 - 100</b>	MPa	-

**Characteristics****Processing**

Injection Molding

**Special Characteristics**

High impact or impact modified

**Delivery form**

Pellets, Natural Color

**Regional Availability**

Europe, Near East/Africa