

**PlusTek PAT304RG50BK31**

PA\*-(CF+GF)50

Polyram

**Product Texts**

AROMATIC POLYAMIDE

**Mechanical properties****ISO Data**

	Value	Unit	Test Standard
Tensile Modulus	<b>21900</b>	MPa	ISO 527
Tensile Strength	<b>245</b>	MPa	ISO 527
Strain at break	<b>2.2</b>	%	ISO 527
Izod notched impact strength, +23°C	<b>16.5</b>	kJ/m <sup>2</sup>	ISO 180/1A

**Thermal properties****ISO Data**

	Value	Unit	Test Standard
Temp. of deflection under load, 1.80 MPa	<b>205</b>	°C	ISO 75-1/-2
Temp. of deflection under load, 0.45 MPa	<b>240</b>	°C	ISO 75-1/-2

**Electrical properties****Other Standards<sup>[5]</sup>**

	Value	Unit	Test Standard
Volume resistivity	<b>10</b>	Ohm*m	Producer Method
Surface resistivity	<b>100000</b>	Ohm	DIN 53482

S: These properties are reported by the producer according standards that are different to our defaults.

**Other properties**

	Value	Unit	Test Standard
Water absorption	<b>3</b>	%	Sim. to ISO 62
Humidity absorption	<b>1.4</b>	%	Sim. to ISO 62
Density	<b>1520</b>	kg/m <sup>3</sup>	ISO 1183

**Processing Recommendation Injection Molding**

	Value	Unit	Test Standard
Pre-drying - Temperature	<b>80</b>	°C	-
Pre-drying - Time	<b>4 - 12</b>	h	-
Processing humidity	<b>≤0.1</b>	%	-
Mold temperature	<b>80 - 140</b>	°C	-
Feed temperature	<b>60 - 70</b>	°C	-
Zone 1	<b>290 - 300</b>	°C	-
Zone 2	<b>290 - 300</b>	°C	-
Zone 3	<b>290 - 300</b>	°C	-

**Characteristics****Processing**

Injection Molding

**Delivery form**

Black

**Special Characteristics**

Increased electrical conductivity, Heat stabilized or stable to heat

**Certifications**

RoHS compliant

**Regional Availability**

North America, Europe, Asia Pacific, South and Central America, Near East/Africa