

PlusTek PA301G6BK10

PA66-GF30

Polyram

Processing/Physical Characteristics	dry / cond	Unit	Test Standard
ISO Data			
Melt flow index, MFI	13	g/10min	ISO 1133
Temperature	275	°C	-
Load	2.16	kg	-
Molding shrinkage, parallel	0.3 / *	%	ISO 294-4, 2577
Molding shrinkage, normal	0.7 / *	%	ISO 294-4, 2577

Mechanical properties	dry / cond	Unit	Test Standard
ISO Data			
Tensile Modulus	10200 / 7300	MPa	ISO 527
Tensile Strength	185 / 125	MPa	ISO 527
Strain at break	2.9 / 3	%	ISO 527
Flexural modulus, 23°C	8230 / -	MPa	ISO 178
Flexural strength	270 / -	MPa	ISO 178
Charpy impact strength, +23°C	60 / -	kJ/m ²	ISO 179/1eU
Charpy impact strength, -30°C	53 / -	kJ/m ²	ISO 179/1eU
Charpy notched impact strength, +23°C	8.2 / -	kJ/m ²	ISO 179/1eA
Charpy notched impact strength, -30°C	7.35 / -	kJ/m ²	ISO 179/1eA
Izod notched impact strength, +23°C	10 / -	kJ/m ²	ISO 180/1A
Izod notched impact strength	8.3 / -	kJ/m ²	ISO 180/1A
Temperature	-30	°C	-
ASTM Data			
Shore D Hardness	80 / -	-	ASTM D 2240

Thermal properties	dry / cond	Unit	Test Standard
ISO Data			
Melting temperature, 10°C/min	260 / *	°C	ISO 11357-1/-3
Temp. of deflection under load, 1.80 MPa	250 / *	°C	ISO 75-1/-2
Temp. of deflection under load, 0.45 MPa	260 / *	°C	ISO 75-1/-2
Burning behav. at thickness h	HB / *	class	IEC 60695-11-10
Thickness tested	0.8 / *	mm	-
Burning rate, FMVSS, Thickness 1 mm	100	mm/min	ISO 3795 (FMVSS 302)
Glow Wire Flammability Index (GWFI)	850	°C	IEC 60695-2-12
GWFI - thickness tested (1)	1.5	mm	-

Other properties	dry / cond	Unit	Test Standard
Water absorption	6 / *	%	Sim. to ISO 62
Humidity absorption	2 / *	%	Sim. to ISO 62
Density	1360 / -	kg/m ³	ISO 1183

Processing Recommendation Injection Molding	Value	Unit	Test Standard
Pre-drying - Temperature	80	°C	-
Pre-drying - Time	2 - 4	h	-
Processing humidity	≤0.15	%	-
Mold temperature	80 - 90	°C	-
Feed temperature	60 - 70	°C	-
Zone 1	260 - 280	°C	-
Zone 2	260 - 280	°C	-
Zone 3	280 - 300	°C	-

Characteristics**Processing**

Injection Molding

Certifications

RoHS compliant

Delivery form

Black

Regional Availability

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

Special Characteristics

Heat stabilized or stable to heat