

PlusTek PB300G6BK-HZD

PA6-GF30

Polyram

Processing/Physical Characteristics	dry / cond	Unit	Test Standard
ISO Data			
Molding shrinkage, parallel	0.2 / *	%	ISO 294-4, 2577
Molding shrinkage, normal	0.8 / *	%	ISO 294-4, 2577

Mechanical properties	dry / cond	Unit	Test Standard
ISO Data			
Tensile Modulus	10200 / 7150	MPa	ISO 527
Tensile Strength	168 / 107	MPa	ISO 527
Strain at break	2.95 / 2.8	%	ISO 527
Flexural modulus, 23°C	8550 / 4820	MPa	ISO 178
Flexural strength	266 / 163	MPa	ISO 178
Charpy impact strength, +23°C	75.8 / -	kJ/m ²	ISO 179/1eU
Charpy impact strength, -30°C	62 / -	kJ/m ²	ISO 179/1eU
Charpy notched impact strength, +23°C	11 / -	kJ/m ²	ISO 179/1eA
Charpy notched impact strength, -30°C	7.4 / -	kJ/m ²	ISO 179/1eA
Izod notched impact strength, +23°C	12.5 / -	kJ/m ²	ISO 180/1A
Izod notched impact strength	9.1 / -	kJ/m ²	ISO 180/1A
Temperature	-30	°C	-

Thermal properties	dry / cond	Unit	Test Standard
ISO Data			
Temp. of deflection under load, 1.80 MPa	206 / *	°C	ISO 75-1/-2
Temp. of deflection under load, 0.45 MPa	220 / *	°C	ISO 75-1/-2
Burning rate, FMVSS, Thickness 1 mm	100	mm/min	ISO 3795 (FMVSS 302)

Other properties	dry / cond	Unit	Test Standard
Water absorption	6.5 / *	%	Sim. to ISO 62
Humidity absorption	2 / *	%	Sim. to ISO 62
Density	1370 / -	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	65 - 80	°C	-
Feed temperature	60 - 70	°C	-
Zone 1	240 - 280	°C	-
Zone 2	240 - 280	°C	-
Zone 3	240 - 280	°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