

PlusTek PA830BK10

PA66

Polyram

Processing/Physical Characteristics	dry / cond	Unit	Test Standard
ISO Data			
Molding shrinkage, parallel	1.6 / *	%	ISO 294-4, 2577
Molding shrinkage, normal	1.7 / *	%	ISO 294-4, 2577

Mechanical properties	dry / cond	Unit	Test Standard
ISO Data			
Tensile Modulus	2300 / 1370	MPa	ISO 527
Tensile Strength	60 / 42	MPa	ISO 527
Yield strain	7 / -	%	ISO 527
Strain at break	- / 80	%	ISO 527
Flexural modulus, 23°C	2070 / 800	MPa	ISO 178
Flexural strength	90 / -	MPa	ISO 178
Charpy impact strength, -30°C	N / N	kJ/m ²	ISO 179/1eU
Charpy notched impact strength, +23°C	66 / -	kJ/m ²	ISO 179/1eA
Charpy notched impact strength, -30°C	18 / -	kJ/m ²	ISO 179/1eA
Izod notched impact strength, +23°C	60 / 80	kJ/m ²	ISO 180/1A
Izod notched impact strength	21 / -	kJ/m ²	ISO 180/1A
Temperature	-30	°C	-

Thermal properties	Value	Unit	Test Standard
ISO Data			
Burning rate, FMVSS, Thickness 1 mm	100	mm/min	ISO 3795 (FMVSS 302)

Other properties	dry / cond	Unit	Test Standard
Water absorption	8 / *	%	Sim. to ISO 62
Humidity absorption	2 / *	%	Sim. to ISO 62
Density	1100 / -	kg/m ³	ISO 1183

Processing Recommendation Injection Molding	Value	Unit	Test Standard
Pre-drying - Temperature	80	°C	-
Pre-drying - Time	4 - 8	h	-
Processing humidity	≤0.15	%	-
Mold temperature	60 - 90	°C	-
Feed temperature	60 - 70	°C	-
Zone 1	260 - 270	°C	-
Zone 2	260 - 270	°C	-
Zone 3	260 - 270	°C	-

Characteristics**Processing**

Injection Molding

Delivery form

Black

Special Characteristics

High impact or impact modified, U.V. stabilized or stable to weather

Certifications

RoHS compliant

Regional Availability

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