

PlusTek PA103NT

PA66

Polyram

Processing/Physical Characteristics	Value	Unit	Test Standard
ISO Data			
Molding shrinkage, parallel	1.8	%	ISO 294-4, 2577
Molding shrinkage, normal	2.2	%	ISO 294-4, 2577

Mechanical properties	Value	Unit	Test Standard
ISO Data			
Tensile Modulus	3100	MPa	ISO 527
Tensile Strength	86	MPa	ISO 527
Yield strain	5	%	ISO 527
Strain at break	17	%	ISO 527
Flexural modulus, 23°C	2750	MPa	ISO 178
Flexural strength	120	MPa	ISO 178
Charpy impact strength, +23°C	N	kJ/m ²	ISO 179/1eU
Charpy notched impact strength, +23°C	5.5	kJ/m ²	ISO 179/1eA
Charpy notched impact strength, -30°C	3.35	kJ/m ²	ISO 179/1eA
Izod notched impact strength, +23°C	5.5	kJ/m ²	ISO 180/1A
Izod notched impact strength	4.8	kJ/m ²	ISO 180/1A
Temperature	-30	°C	-

Thermal properties	Value	Unit	Test Standard
ISO Data			
Melting temperature, 10°C/min	263	°C	ISO 11357-1/-3
Temp. of deflection under load, 1.80 MPa	68	°C	ISO 75-1/-2
Temp. of deflection under load, 0.45 MPa	139	°C	ISO 75-1/-2
Burning behav. at thickness h	V-2	class	IEC 60695-11-10
Thickness tested	0.8	mm	-
Glow Wire Ignition Temperature (GWIT)	750	°C	IEC 60695-2-13
GWIT - thickness tested (1)	1.6	mm	-

Other properties	Value	Unit	Test Standard
Water absorption	6.62	%	Sim. to ISO 62
Humidity absorption	3	%	Sim. to ISO 62
Density	1130	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	70 - 120	°C	-
Feed temperature	60 - 70	°C	-
Zone 1	265 - 280	°C	-
Zone 2	270 - 300	°C	-
Zone 3	280 - 300	°C	-

Characteristics**Processing**

Injection Molding, Other Extrusion

Certifications

RoHS compliant

Delivery form

Natural Color

Regional Availability

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