

PlusTek PD1002NT

PA12

Polyram

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

Mechanical properties	Value	Unit	Test Standard
ISO Data			
Tensile Modulus	1100	MPa	ISO 527
Tensile Strength	40	MPa	ISO 527
Yield strain	12	%	ISO 527
Charpy notched impact strength, +23°C	7	kJ/m ²	ISO 179/1eA

Thermal properties	Value	Unit	Test Standard
ISO Data			
Temp. of deflection under load, 1.80 MPa	50	°C	ISO 75-1/-2
Temp. of deflection under load, 0.45 MPa	125	°C	ISO 75-1/-2

Other properties	Value	Unit	Test Standard
Water absorption	1.5	%	Sim. to ISO 62
Humidity absorption	0.7	%	Sim. to ISO 62
Density	1010	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	70 - 90	°C	-
Feed temperature	60 - 70	°C	-
Zone 1	220 - 230	°C	-
Zone 2	220 - 230	°C	-
Zone 3	230 - 240	°C	-

Characteristics**Processing**

Injection Molding

Delivery form

Natural Color

Certifications

Food contact, Food approval 10/2011, Food approval FDA 21 CFR

Regional Availability

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