

PlusTek PA100NT-N

PA66

Polyram

Product Texts

Monomer and additives are listed as authorized monomers/additives In Annex I of regulations (EC) No. 10/2011.

Processing/Physical Characteristics

dry / cond

Unit

Test Standard

ISO Data

Molding shrinkage, parallel

1.2 / *

%

ISO 294-4, 2577

Mechanical properties

dry / cond

Unit

Test Standard

ISO Data

Tensile Modulus

3000 / -

MPa

ISO 527

Tensile Strength

80 / -

MPa

ISO 527

Yield strain

4.5 / -

%

ISO 527

Flexural modulus, 23°C

2900 / -

MPa

ISO 178

Flexural strength

82 / -

MPa

ISO 178

Charpy impact strength, +23°C

N / N

kJ/m²

ISO 179/1eU

Charpy notched impact strength, +23°C

6 / -

kJ/m²

ISO 179/1eA

Izod notched impact strength, +23°C

6 / 20

kJ/m²

ISO 180/1A

Thermal properties

dry / cond

Unit

Test Standard

ISO Data

Temp. of deflection under load, 1.80 MPa

72 / *

°C

ISO 75-1/-2

Temp. of deflection under load, 0.45 MPa

200 / *

°C

ISO 75-1/-2

Burning behav. at 1.5 mm nom. thickn.

V-2 / *

class

IEC 60695-11-10

Thickness tested

1.6 / *

mm

-

Other properties

dry / cond

Unit

Test Standard

Water absorption

9 / *

%

Sim. to ISO 62

Humidity absorption

3 / *

%

Sim. to ISO 62

Density

1140 / -

kg/m³

ISO 1183

Material specific properties

dry / cond

Unit

Test Standard

ISO Data

Viscosity number

142 / *

cm³/g

ISO 307, 1157, 1628

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

Delivery form

Natural Color

Additives

Lubricants

Certifications

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

Applications

General Purpose

Regional Availability

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