

PlusTek PAT7001G50BK11

PA*-GF50

Polyram

Product Texts

PLUSTEK PAT7001G50BK11 is Black, 50% Glass Fiber Reinforced, UV Stabilized, Improved Surface Appearance AROMATIC POLYAMIDE, Injection Molding, Irrigation Applications.

Processing/Physical Characteristics	dry / cond	Unit	Test Standard
ISO Data			
Molding shrinkage, parallel	0.1 / *	%	ISO 294-4, 2577
Molding shrinkage, normal	0.2 / *	%	ISO 294-4, 2577

Mechanical properties	dry / cond	Unit	Test Standard
ISO Data			
Tensile Modulus	16000 / 15000	MPa	ISO 527
Tensile Strength	230 / 200	MPa	ISO 527
Strain at break	2.5 / 2.4	%	ISO 527
Flexural modulus, 23°C	16400 / -	MPa	ISO 178
Flexural strength	365 / 290	MPa	ISO 178
Charpy impact strength, +23°C	80 / -	kJ/m ²	ISO 179/1eU
Charpy notched impact strength, +23°C	10.5 / -	kJ/m ²	ISO 179/1eA
Charpy notched impact strength, -30°C	9.7 / -	kJ/m ²	ISO 179/1eA
Izod notched impact strength, +23°C	13 / 16	kJ/m ²	ISO 180/1A

Thermal properties	dry / cond	Unit	Test Standard
ISO Data			
Temp. of deflection under load, 1.80 MPa	240 / *	°C	ISO 75-1/-2
Temp. of deflection under load, 0.45 MPa	260 / *	°C	ISO 75-1/-2

Other properties	dry / cond	Unit	Test Standard
Humidity absorption	0.2 / *	%	Sim. to ISO 62
Density	1560 / -	kg/m ³	ISO 1183

Processing Recommendation Injection Molding	Value	Unit	Test Standard
Pre-drying - Temperature	120	°C	-
Pre-drying - Time	4 - 24	h	-
Processing humidity	≤0.05	%	-
Mold temperature	130 - 160	°C	-
Feed temperature	100 - 130	°C	-
Zone 1	280 - 300	°C	-
Zone 2	300 - 320	°C	-
Zone 3	310 - 330	°C	-

Characteristics**Processing**

Injection Molding

Delivery form

Black

Special Characteristics

U.V. stabilized or stable to weather

Certifications

Drinking water contact, Drinking water contact NSF 61, RoHS compliant

Regional Availability

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