

PlusTek PAT302PWG50BK10

PA*-GF50

Polyram

Product Texts

PLUSTEK PAT302PWG50BK10 is Black, 50% Glass Fiber Reinforced, semi-crystalline Polyamide with partially aromatic copolyamide, Water approved grade Injection Molding Applications.

Processing/Physical Characteristics	Value	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	Value	Unit	Test Standard
ISO Data			
Tensile Modulus	18100	MPa	ISO 527
Tensile Strength	250	MPa	ISO 527
Strain at break	2.8	%	ISO 527
Izod notched impact strength, +23°C	16	kJ/m ²	ISO 180/1A

Thermal properties	Value	Unit	Test Standard
ISO Data			
Melting temperature, 10°C/min	260	°C	ISO 11357-1/-3

Other properties	Value	Unit	Test Standard
Water absorption	3	%	Sim. to ISO 62
Humidity absorption	1.4	%	Sim. to ISO 62
Density	1570	kg/m ³	ISO 1183

Processing Recommendation Injection Molding	Value	Unit	Test Standard
Pre-drying - Temperature	80	°C	-
Pre-drying - Time	4 - 12	h	-
Processing humidity	≤0.1	%	-
Mold temperature	80 - 140	°C	-
Feed temperature	60 - 70	°C	-
Zone 1	290 - 300	°C	-
Zone 2	290 - 300	°C	-
Zone 3	290 - 300	°C	-

Characteristics**Processing**

Injection Molding

Delivery form

Black

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