Armamid PA6 GF 30-3MIM

A 30% glass fiber, impact modified polyamide 6. This material displays high mechanical and electrical properties; resilient to hydrocarbons (kerosene, gasoline, benzene etc.), mineral and synthetic oils, strong and weak alkali, weak acids.
Designed for injection moulding of items and parts for a wide solutions range: construction, electronics, military machines exploited at a temperature range of -50°C— +50°C.
Available in natural, green, blue, beige and black colors.

Properties	Test method	Unit	Typical value
MISCELLANEOUS			
Density	ISO 1183	kg/m^3	1430
Tensile Strength	ISO 527-1	MPa	200
Strain at Break	ISO 527-1	%	5
Flexural Stress at maximum load	ISO 178	MPa	270
Tensile Modulus	ISO 178	MPa	10500
Charpy Impact Strength at +23°C (un-notched)	ISO 179-1	kJ/m^2	70
Charpy Impact Strength at -40°C (un-notched)	ISO 179-1	kJ/m^2	50
Charpy Impact Strength at +23°C (notched)	ISO 179-1	kJ/m^2	18
THERMAL			
Melting Point	ISO 3146	°C	219
Deflection Temperature at 0.45 MPa load	ISO 75	°C	217
Deflection Temperature at 1.8 MPa load	ISO 75	°C	205
Coefficient of linear thermal expansion	ISO 11359-2	$(10^{-6})^{K-1}$	25
Liquid absorption in water (23 °C, 24 h)	ISO 62	%	1.1
PROCESSING			
Melt Flow Rate (250 °C; 2,16 kg)	ISO 1133	g/10 min	6-12
Melt Temperature		°C	265
Mold Temperature		°C	80
Moulding Shrinkage, parallel	ISO 294-4	%	0.1-0,2
Moulding Shrinkage, normal	ISO 294-4	%	0.5-0.7
FLAMMABILITY			
Temperature resistance, hot wire ignition	IEC 60695-2-10	°C	650

Comment:
All processing parameters as well as information on shrinkage specimen should be requested from the manufacturer.
If stored in a dry warehouse – dehydration not required

Date of issue 10.04.2017

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