

Armamid PA6 GF 30-1T

A 30% glass fiber, impact resistant 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. Can be used in products and parts in contact with foods.

Designed for injection moulding of items and parts for a wide solutions range: construction, electronics, auto industry, machine engineering, household, rail transportation etc.

Available in natural, white, red, yellow, brown, gray, graphite, basalt and black colors.

Properties	Test method	Unit	Typical value
MISCELLANEOUS			
Density	ISO 1183	kg/m ³	1350
Tensile Strength	ISO 527-1	MPa	140
Strain at Break	ISO 527-1	%	5
Flexural Stress at maximum load	ISO 178	MPa	216
Tensile Modulus	ISO 178	MPa	8500
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	52
Charpy Impact Strength at +23°C (notched)	ISO 179-1	kJ/m ²	12
THERMAL			
Melting Point	ISO 3146	°C	218
Deflection Temperature at 0.45 MPa load	ISO 75	°C	210
Deflection Temperature at 1.8 MPa load	ISO 75	°C	195
Coefficient of linear thermal expansion	ISO 11359-2	(10 ⁻⁶)K ⁻¹	0,3
Water absorption (23 °C, 24 h)	ISO 62	%	1,2
PROCESSING			
Melt Flow Rate (250 °C; 2,16 kg)	ISO 1133	g/10 мин	7-15
Moulding Shrinkage, parallel	ISO 294-4	%	0,2-0,3
Moulding Shrinkage, normal	ISO 294-4	%	0,7-1,0
Melt Temperature	ISO 1133	°C	260
Mold Temperature	ISO 1133	°C	80
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*

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