

Armamid PA6 GF 30-1

A 30% glass fiber 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, auto industry, machine engineering, aviation, household, transportation etc.

Available in natural, grey and black colors.

Properties	Test method	Unit	Typical value
MISCELLANEOUS			
Density	ISO 1183	kg/m ³	1360
Tensile Strength	ISO 527-1	MPa	144
Strain at Break	ISO 527-1	%	4
Flexural Stress at maximum load	ISO 178	MPa	200
Tensile Modulus	ISO 178	MPa	7500
Charpy Impact Strength at +23°C (un-notched)	ISO 179-1	kJ/m ²	52
Charpy Impact Strength at -40°C (un-notched)	ISO 179-1	kJ/m ²	40
Charpy Impact Strength at +23°C (notched)	ISO 179-1	kJ/m ²	10
Charpy Impact Strength at -40°C (notched)	ISO 179-1	kJ/m ²	8
THERMAL			
Melting Point	ISO 3146	°C	220
Deflection Temperature at 0.45 MPa load	ISO 75	°C	210
Deflection Temperature at 1.8 MPa load	ISO 75	°C	200
Coefficient of linear thermal expansion	ISO 11359-2	(10 ⁻⁶) ^{K⁻¹}	30
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	10
Melt Temperature		°C	260
Mold Temperature		°C	80
Moulding Shrinkage, parallel	ISO 294-4	%	0.2-0.3
Moulding Shrinkage, normal	ISO 294-4	%	0.7-0.9
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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