

Armamid PA6 GF 50-1

A 50% glass fibre 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.

Properties	Test method	Unit	Typical value
MISCELLANEOUS			
Density	ISO 1183	kg/m ³	1570
Tensile Strength	ISO 527-1	MPa	195
Flexural Stress at maximum load	ISO 178	MPa	330
Flexural Modulus	ISO 178	MPa	15000
Charpy Impact Strength at +23°C (un-notched)	ISO 179-1	kJ/m ²	100
Charpy Impact Strength at -40°C (un-notched)	ISO 179-1	kJ/m ²	85
Charpy Impact Strength at +23°C (notched)	ISO 179-1	kJ/m ²	20
THERMAL			
Melting Point	ISO 3146	°C	219
Deflection Temperature at 1.8 MPa load	ISO 75	°C	210
PROCESSING			
Melt Flow Rate (250 °C; 2,16 kg)	ISO 1133	g/10 min	8-12
Melt Temperature		°C	260
Mold Temperature		°C	80
Moulding Shrinkage, parallel	ISO 294-4	%	0.2-0.4
Moulding Shrinkage, normal	ISO 294-4	%	0.6-0.8
ELECTROPHYSICAL			
Electrical strength	IEC 60243	kV/mm	23
Specific volume resistivity	IEC 60093	Ω·m	1.00+E13
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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