

Armamid PA6 GF 20-1

A 20% 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 and color.

Properties	Test method	Unit	Typical value
MISCELLANEOUS			
Density	ISO 1183	kg/m ³	1240
Tensile Strength	ISO 527-1	MPa	125
Strain at Break	ISO 527-1	%	5
Flexural Stress at maximum load	ISO 178	MPa	165
Tensile Modulus	ISO 178	MPa	5500
Charpy Impact Strength at +23°C (un-notched)	ISO 179-1	kJ/m ²	55
Charpy Impact Strength at -40°C (un-notched)	ISO 179-1	kJ/m ²	44
Charpy Impact Strength at +23°C (notched)	ISO 179-1	kJ/m ²	9
THERMAL			
Melting Point	ISO 3146	°C	218
Deflection Temperature at 0.45 MPa load	ISO 75	°C	205
Deflection Temperature at 1.8 MPa load	ISO 75	°C	198
Coefficient of linear thermal expansion	ISO 11359-2	(10 ⁻⁶) ^{K⁻¹}	30
Liquid absorption in water (23 °C, 24 h)	ISO 62	%	1.35
PROCESSING			
Melt Flow Rate (250 °C; 2,16 kg)	ISO 1133	g/10 min	13-20
Melt Temperature		°C	260
Mold Temperature		°C	80
Moulding Shrinkage, parallel	ISO 294-4	%	0.2-0.3
Moulding Shrinkage, normal	ISO 294-4	%	0.7-1.0
ELECTROPHYSICAL			
Electrical strength	IEC 60243	kV/mm	25
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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