

## Armamid PA6 GF 35-1

A 35% glass fiber, elasticized polyamide 6. This material displays high mechanical and electrical properties; self-attenuates after the ignition source is exterminated; is resilient to nonpolar solvents, hydrocarbons (kerosene, gasoline, benzene etc.), mineral 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, red, brown, blue and black colors.

Properties	Test Method	Unit	Typical Value
<b>MISCELLANEOUS</b>			
Density	ISO 1183	kg/m <sup>3</sup>	1400
Tensile Strength	ISO 527-1	MPa	150
Strain at Break	ISO 527-1	%	3
Flexural Stress at maximum load	ISO 178	MPa	230
Tensile Modulus	ISO 178	MPa	8300
Charpy Impact Strength at +23°C (un-notched)	ISO 179-1	kJ/m <sup>2</sup>	60
Charpy Impact Strength at -40°C (un-notched)	ISO 179-1	kJ/m <sup>2</sup>	50
Charpy Impact Strength at +23°C (notched)	ISO 179-1	kJ/m <sup>2</sup>	7
<b>THERMAL</b>			
Melting Point	ISO 3146	°C	219
Deflection Temperature at 0.45 MPa load	ISO 75	°C	215
Deflection Temperature at 1.8 MPa load	ISO 75	°C	205
Coefficient of linear thermal expansion	ISO 11359-2	(10 <sup>6</sup> ) <sup>-1</sup>	25
Liquid absorption in water (23 °C, 24 m)	ISO 62	%	1.15
<b>PROCESSING</b>			
Melt flow rate (250 °C; 216 kg)	ISO 1133	g/10 min	-
Melt Temperature		°C	260
Mold Temperature		°C	80
Moulding Shrinkage, parallel	ISO 294-4	%	0.1-0.3
Moulding Shrinkage, normal	ISO 294-4	%	0.5-0.8
<b>ELECTRICAL</b>			
Electrical strength	IEC 60243	kV/mm	29
Volume resistivity	IEC 60093	Ohm*m	1E <sup>13</sup>
Tracking index	IEC 60112	V	175
<b>FLAMMABILITY</b>			
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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