

## Armamid PA6 GF 15-1E

A 15% 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 grey, blue and black colors.

Properties	Test method	Unit	Typical value
<b>MISCELLANEOUS</b>			
Density	ISO 1183	kg/m <sup>3</sup>	1220
Tensile Strength	ISO 527-1	MPa	120
Strain at Break	ISO 527-1	%	4
Flexural Stress at maximum load	ISO 178	MPa	170
Tensile Modulus	ISO 178	MPa	4900
Charpy Impact Strength at +23°C (un-notched)	ISO 179-1	kJ/m <sup>2</sup>	40
Charpy Impact Strength at -40°C (un-notched)	ISO 179-1	kJ/m <sup>2</sup>	30
Charpy Impact Strength at +23°C (notched)	ISO 179-1	kJ/m <sup>2</sup>	6
<b>THERMAL</b>			
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	180
Coefficient of linear thermal expansion	ISO 11359-2	(10 <sup>-6</sup> ) <sup>K</sup> <sup>-1</sup>	30
Water absorption (23 °C, 24 h)	ISO 62	%	1.45
<b>PROCESSING</b>			
Melt Flow Rate (250 °C; 2,16 kg)	ISO 1133	g/10 min	12-20
Melt Temperature		°C	260
Mold Temperature		°C	80
Moulding Shrinkage, parallel	ISO 294-4	%	0.4-0.5
Moulding Shrinkage, normal	ISO 294-4	%	0.6-0.8
<b>ELECTROPHYSICAL</b>			
Electrical strength	IEC 60243	kV/mm	25
Specific volume resistivity	IEC 60093	Ω·m	1.00+E13
<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*

*Date of issue 10.04.2017*

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