

Armamid PA6 GF 20-5FRM

A 20% mineral filled 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, fire safety equipment, household, transportation etc.

Available in natural, dark-olive, grey and black colors.

Properties	Test method	Unit	Typical value
MISCELLANEOUS			
Density	ISO 1183	kg/m ³	1500
Tensile Strength	ISO 527-1	MPa	140
Strain at Break	ISO 527-1	%	4
Flexural Stress at maximum load	ISO 178	MPa	177
Tensile Modulus	ISO 178	MPa	6700
Charpy Impact Strength at +23°C (un-notched)	ISO 179-1	kJ/m ²	56
THERMAL			
Melting Point	ISO 3146	°C	216
Deflection Temperature at 0.45 MPa load	ISO 75	°C	195
PROCESSING			
Melt Flow Rate (250 °C; 2,16 kg)	ISO 1133	g/10 min	10-20
Melt Temperature		°C	260
Mold Temperature		°C	80
Moulding Shrinkage, parallel	ISO 294-4	%	0.1-0.3
Moulding Shrinkage, normal	ISO 294-4	%	0.7-1.0
ELECTROPHYSICAL			
Electrical strength	IEC 60243	kV/mm	25
Specific volume resistivity	IEC 60093	Ω·m	1.00+E13
FLAMMABILITY			
Safety of Flammability	UL 94		V0
Temperature resistance, hot wire ignition	IEC 60695-2-10	°C	960
Comparative Tracking Index, V	IEC 60112	V	200

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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