

## Armamid PA6-1IM

An impact modified 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 <sup>3</sup>	1090
Tensile Strength	ISO 527-1	MPa	60
Strain at Break	ISO 527-1	%	40
Flexural Stress at maximum load	ISO 178	MPa	55
Flexural Modulus	ISO 178	MPa	1900
Tensile Modulus	ISO 527-1	MPa	2000
Charpy Impact Strength at +23°C (notched)	ISO 179-1	kJ/m <sup>2</sup>	27
THERMAL			
Melting Point	ISO 3146	°C	215
Deflection Temperature at 0.45 MPa load	ISO 75	°C	140
Deflection Temperature at 1.80 MPa load	ISO 75	°C	55
PROCESSING			
Melt Flow Rate (250 °C; 2,16 kg)	ISO 1133	g/10 min	6-14
Moulding Shrinkage	ISO 294-4	%	1.5-2.5
Melt Temperature		°C	260
Mold Temperature		°C	80

Comment:All processing parameters as well as information onshrinkage specimen should be requested from the manufacturer. If stored in a dry warehouse – dehydration not required

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