

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 ³	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 ²	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 on shrinkage specimen should be requested from the manufacturer. If stored in a dry warehouse – dehydration not required

Date of issue 10.05.2023

The information in this technical description is for reference purposes only. It can be considered as the basis for determining whether material is acceptable for specific applications. Because it is not possible to anticipate all applications of materials and operating conditions, POLYPLASTIC makes no warranty and assumes no liability for the use of the information specified in the catalog. This information may be changed without notice.