

## Armamid PA6-4T

A thermoplastic construction polyamide 6. This material displays high elasticity, impact strength, cold resilience and alternating stresses.

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 color.

Properties	Test method	Unit	Typical value
<b>MISCELLANEOUS</b>			
Density	ISO 1183	kg/m <sup>3</sup>	1080
Tensile Strength	ISO 527-1	MPa	56
Strain at Break	ISO 527-1	%	80
Flexural Stress at maximum load	ISO 178	MPa	75
Tensile Modulus	ISO 178	MPa	1950
Charpy Impact Strength at +23°C (un-notched)	ISO 179-1	kJ/m <sup>2</sup>	No break
Charpy Impact Strength at -40°C (un-notched)	ISO 179-1	kJ/m <sup>2</sup>	No break
Charpy Impact Strength at +23°C (notched)	ISO 179-1	kJ/m <sup>2</sup>	30
Charpy Impact Strength at -40°C (notched)	ISO 179-1	kJ/m <sup>2</sup>	23
<b>THERMAL</b>			
Melting Point	ISO 3146	°C	210
Deflection Temperature at 0.45 MPa load	ISO 75	°C	140
<b>PROCESSING</b>			
Melt Flow Rate (250 °C; 2,16 kg)	ISO 1133	g/10 min	4-12
Melt Temperature		°C	260
Mold Temperature		°C	60
Moulding Shrinkage, parallel	ISO 294-4	%	0.7-1.0
Moulding Shrinkage, normal	ISO 294-4	%	0.7-1.0
<b>ELECTROPHYSICAL</b>			
Electrical strength	IEC 60243	kV/mm	22
Specific volume resistivity	IEC 60093	Ω·m	1.00+E13

*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 25.04.2018*

*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.*