

Product Texts

HiDura MED AI1 NT0861 is a high impact-modified PA66 resin designed for healthcare applications. The product provides all the processing and performance advantages of PA66 with excellent impact strength even at low temperatures and can be easily colored. This product offers a combination of engineering properties characterized by excellent toughness and flexibility; high melt point; and resistance to many chemicals including disinfectants. The product is compliant to ISO 10993-5 and ISO 10993-10. It exhibits good property retention after most sterilization methods.

Processing/Physical Characteristics	dry / cond	Unit	Test Standard
ISO Data			
^[C] Molding shrinkage, parallel	1.8 / *	%	ISO 294-4, 2577
^[C] Molding shrinkage, normal	1.6 / *	%	ISO 294-4, 2577

[C]: CAMPUS

Mechanical properties	dry / cond	Unit	Test Standard
ISO Data			
^[C] Tensile Modulus	2200 / 1400	MPa	ISO 527
^[C] Charpy impact strength, +23°C	N / N	kJ/m ²	ISO 179/1eU
^[C] Charpy impact strength, -30°C	N / N	kJ/m ²	ISO 179/1eU
^[C] Charpy notched impact strength, +23°C	76 / 110	kJ/m ²	ISO 179/1eA
^[C] Charpy notched impact strength, -30°C	35 / 25	kJ/m ²	ISO 179/1eA

[C]: CAMPUS

Thermal properties	dry / cond	Unit	Test Standard
ISO Data			
^[C] Melting temperature, 10°C/min	260 / *	°C	ISO 11357-1/-3
^[C] Temp. of deflection under load, 1.80 MPa	58 / *	°C	ISO 75-1/-2
^[C] Temp. of deflection under load, 0.45 MPa	145 / *	°C	ISO 75-1/-2
^[C] Coeff. of linear therm. expansion, parallel	168 / *	E-6/K	ISO 11359-1/-2
^[C] Coeff. of linear therm. expansion, normal	149 / *	E-6/K	ISO 11359-1/-2
Thickness tested	1.5 / *	mm	-
^[C] Burning Behav. at thickness h	HB / *	class	IEC 60695-11-10
Thickness tested	0.8 / *	mm	-

[C]: CAMPUS

Electrical properties	dry / cond	Unit	Test Standard
ISO Data			
^[C] Comparative tracking index	600 / -	-	IEC 60112

[C]: CAMPUS

Other properties	dry / cond	Unit	Test Standard
^[C] Water absorption	1 / *	%	Sim. to ISO 62
^[C] Humidity absorption	2.1 / *	%	Sim. to ISO 62
^[C] Density	1080 / -	kg/m ³	ISO 1183

[C]: CAMPUS

Characteristics**Processing**

Injection Molding, Profile Extrusion

Delivery form

Pellets, Natural Color

Additives

Lubricants, Release agent

Chemical Resistance

General Chemical Resistance

Certifications

Biocompatibility ISO 10993

Applications

Medical

Special Characteristics

High impact or impact modified, Sterilizable

Regional Availability

North America, Europe, Asia Pacific