HiDura™ MED AP NT0860

PA66 Ascend

Product Texts

HiDura MED AP NT0860 is an unfilled resin designed for healthcare applications. It is a lubricated PA66 resin with fast cycle times even in large cavitation tools for higher productivity and can easily be colored. This product offers a combination of engineering properties characterized by high strength; rigidity; good toughness; high melt point; good surface lubricity; abrasion resistance; 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	**2.0 / ***	%	ISO 294-4, 2577
[C] Molding shrinkage, normal	**2.0 / ***	%	ISO 294-4, 2577

[C]: CAMPUS

Mechanical properties	dry / cond	Unit	Test Standard
ISO Data			
[C] Tensile Modulus	**2900 / 1900**	MPa	ISO 527
[C] Yield stress	**89 / 60**	MPa	ISO 527
[C] Yield strain	**4.8 / 20**	%	ISO 527
[C] Charpy impact strength, +23°C	**N / N**	kJ/m²	ISO 179/1eU
[C] Charpy impact strength, -30°C	**N / N**	kJ/m²	ISO 179/1eU
[C] Charpy notched impact strength, +23°C	**6 / 23**	kJ/m²	ISO 179/1eA
[C] Charpy notched impact strength, -30°C	**5 / 7**	kJ/m²	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	**72 / ***	°C	ISO 75-1/-2
[C] Temp. of deflection under load, 0.45 MPa	**210 / ***	°C	ISO 75-1/-2
[C] Coeff. of linear therm. expansion, parallel	**100 / ***	E-6/K	ISO 11359-1/-2
[C] Coeff. of linear therm. expansion, normal	**100 / ***	E-6/K	ISO 11359-1/-2
Thickness tested	**1.5 / ***	mm	-
[C] Burning Behav. at thickness h	**V-2 / ***	class	IEC 60695-11-10
Thickness tested	**0.4 / ***	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	**1.2 / ***	%	Sim. to ISO 62
[C] Humidity absorption	**2.4 / ***	%	Sim. to ISO 62
[C] Density	**1140 / -**	kg/m³	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
Sterilizable

Regional Availability
North America, Europe, Asia Pacific, South and Central America, Near East/Africa