

Adell Polyamide AM-10

Polyamide 66

Adell Plastics, Inc.

Message:

Adell Polyamide AM-10 is a Polyamide 66 (Nylon 66) material. It is available in North America.

Important attributes of Adell Polyamide AM-10 are:

Flame Retardant

Lubricated

General Information			
UL YellowCard	E44974-235691		
Additive	Molybdenum Disulfide Lubricant		
Features	Flame Retardant		
	Lubricated		
Appearance	Colors Available		
Forms	Pellets		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.16	g/cm ³	ASTM D792
Molding Shrinkage - Flow	1.1 to 1.4	%	ASTM D955
Water Absorption (24 hr)	1.1	%	ASTM D570
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness			ASTM D785
M-Scale	85		
R-Scale	121		
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield)	89.6	MPa	ASTM D638
Tensile Elongation (Break)	8.0	%	ASTM D638
Flexural Modulus	3170	MPa	ASTM D790
Flexural Strength (Yield)	117	MPa	ASTM D790
Compressive Strength	103	MPa	ASTM D695
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C, 3.18 mm)	37	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, Unannealed	196	°C	
1.8 MPa, Unannealed	78.9	°C	
Melting Temperature	254 to 266	°C	
CLTE - Flow	7.2E-5	cm/cm/°C	ASTM D696
Thermal Conductivity	0.25	W/m/K	ASTM C177
RTI Elec (3.05 mm)	105	°C	UL 746

RTI Imp (3.05 mm)	70.0	°C	UL 746
RTI Str (3.05 mm)	70.0	°C	UL 746
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	2.0E+14	ohms·cm	ASTM D257
Dielectric Strength	18	kV/mm	ASTM D149
Arc Resistance (3.05 mm)	150	sec	ASTM D495
Comparative Tracking Index (CTI) (3.05 mm)	600	V	UL 746
High Amp Arc Ignition (HAI) (3.05 mm)	120		UL 746
High Voltage Arc Tracking Rate (HVTR) (3.05 mm)	17.0	mm/min	UL 746
Hot-wire Ignition (HWI) (3.05 mm)	45	sec	UL 746

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