

Adell Polyamide AF-10-667A

Polyamide 66

Adell Plastics, Inc.

Message:

Adell Polyamide AF-10-667A is a Polyamide 66 (Nylon 66) material. It is available in North America. Primary attribute of Adell Polyamide AF-10-667A: Flame Retardant.

General Information			
UL YellowCard	E44974-235685		
Features	Flame Retardant		
Appearance	Black		
	Natural Color		
Forms	Pellets		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.39	g/cm ³	ASTM D792
Molding Shrinkage - Flow	0.60 to 0.90	%	ASTM D955
Water Absorption (24 hr)	1.0	%	ASTM D570
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield)	55.2	MPa	ASTM D638
Tensile Elongation (Break)	5.0	%	ASTM D638
Flexural Modulus	3450	MPa	ASTM D790
Flexural Strength (Yield)	103	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C, 3.18 mm)	27	J/m	ASTM D256
Tensile Impact Strength	94.6	kJ/m ²	ASTM D1822
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, Unannealed	204	°C	
1.8 MPa, Unannealed	116	°C	
Melting Temperature	246 to 254	°C	
RTI Elec (0.710 mm)	130	°C	UL 746
RTI Imp			UL 746
0.710 mm	75.0	°C	
1.47 mm	80.0	°C	
RTI Str			UL 746
0.710 mm	120	°C	
1.47 mm	130	°C	
Electrical	Nominal Value	Unit	Test Method
Arc Resistance (3.05 mm)	60.0	sec	ASTM D495

Comparative Tracking Index (CTI) (3.05 mm)	160	V	UL 746
High Amp Arc Ignition (HAI) (0.710 mm)	120		UL 746
High Voltage Arc Tracking Rate (HVTR)	124	mm/min	UL 746
Hot-wire Ignition (HWI)			UL 746
0.710 mm	23	sec	
1.47 mm	45	sec	

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