

Adell Polyamide AF-10-667

Polyamide 66

Adell Plastics, Inc.

Message:

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

General Information			
UL YellowCard	E44974-235684		
Features	Flame Retardant		
Appearance	Natural Color		
Forms	Pellets		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.39	g/cm ³	ASTM D792
Molding Shrinkage - Flow	0.70 to 1.0	%	ASTM D955
Water Absorption (24 hr)	1.0	%	ASTM D570
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield)	65.5	MPa	ASTM D638
Tensile Elongation (Break)	3.0	%	ASTM D638
Flexural Modulus	4140	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	84.1	kJ/m ²	ASTM D1822
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, Unannealed	218	°C	
1.8 MPa, Unannealed	127	°C	
Melting Temperature	249 to 260	°C	
RTI Elec (0.710 mm)	130	°C	UL 746
RTI Imp			UL 746
0.710 mm	75.0	°C	
1.47 mm	85.0	°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)	212	V	UL 746
High Amp Arc Ignition (HAI)			UL 746

0.710 mm	51.0		
3.05 mm	90.0		
High Voltage Arc Tracking Rate (HVTR)			UL 746
0.710 mm	115	mm/min	
1.47 mm	52.0	mm/min	
Hot-wire Ignition (HWI) (0.710 mm)	45	sec	UL 746

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