

Adell Polyamide AR-77

Polyamide 66

Adell Plastics, Inc.

Message:

Adell Polyamide AR-77 is a Polyamide 66 (Nylon 66) material filled with 33% glass fiber. It is available in North America.

Important attributes of Adell Polyamide AR-77 are:

Good Weather Resistance

Heat Resistant

Typical application of Adell Polyamide AR-77: Automotive

General Information			
Filler / Reinforcement	Glass Fiber,33% Filler by Weight		
Features	Good Thermal Stability		
	Good Weather Resistance		
Forms	Pellets		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.38	g/cm ³	ASTM D792
Molding Shrinkage - Flow	0.20 to 0.50	%	ASTM D955
Water Absorption (24 hr)	0.80	%	ASTM D570
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness			ASTM D785
M-Scale	99		
R-Scale	123		
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield)	171	MPa	ASTM D638
Tensile Elongation (Break)	3.0	%	ASTM D638
Flexural Modulus	8790	MPa	ASTM D790
Flexural Strength (Yield)	255	MPa	ASTM D790
Compressive Strength	245	MPa	ASTM D695
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C, 3.18 mm)	91	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, Unannealed	249	°C	
1.8 MPa, Unannealed	249	°C	
Melting Temperature	254 to 271	°C	
CLTE - Flow	2.2E-5	cm/cm/°C	ASTM D696
Thermal Conductivity	0.43	W/m/K	ASTM C177
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	4.9E+14	ohms · cm	ASTM D257

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