

Adell Polyamide AN-18

Polyamide 66

Adell Plastics, Inc.

Message:

Adell Polyamide AN-18 is a Polyamide 66 (Nylon 66) material filled with 40% mineral. It is available in North America. Primary attribute of Adell Polyamide AN-18: Impact Resistant.

General Information			
Filler / Reinforcement	Mineral,40% Filler by Weight		
Features	Good Impact Resistance		
Forms	Pellets		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.45	g/cm ³	ASTM D792
Molding Shrinkage - Flow	0.20 to 0.60	%	ASTM D955
Water Absorption (24 hr)	0.60	%	ASTM D570
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness			ASTM D785
M-Scale	98		
R-Scale	122		
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield)	96.5	MPa	ASTM D638
Tensile Elongation (Break)	3.0	%	ASTM D638
Flexural Modulus	6210	MPa	ASTM D790
Flexural Strength (Yield)	152	MPa	ASTM D790
Compressive Strength	207	MPa	ASTM D695
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C, 3.18 mm)	69	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, Unannealed	241	°C	
1.8 MPa, Unannealed	221	°C	
Melting Temperature	249 to 260	°C	
CLTE - Flow	2.3E-5	cm/cm/°C	ASTM D696
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	4.5E+18	ohms · cm	ASTM D257
Dielectric Strength	20	kV/mm	ASTM D149

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