

Adell PP ER-18

Polypropylene Homopolymer

Adell Plastics, Inc.

Message:

Adell PP ER-18 is a Polypropylene Homopolymer (PP Homopolymer) material filled with 40% glass fiber. It is available in North America.

Important attributes of Adell PP ER-18 are:

Flame Rated

Homopolymer

General Information			
Filler / Reinforcement	Glass Fiber,40% Filler by Weight		
Features	Homopolymer		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.21 to 1.23	g/cm ³	ASTM D792
Molding Shrinkage - Flow	0.20 to 0.50	%	ASTM D955
Water Absorption (24 hr)	0.040	%	ASTM D570
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness	ASTM D785		
M-Scale	60		
R-Scale	115		
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength	96.5	MPa	ASTM D638
Tensile Elongation (Break)	2.0 to 3.0	%	ASTM D638
Flexural Modulus	6760	MPa	ASTM D790
Flexural Strength	148	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C, 3.18 mm)	110	J/m	ASTM D256
Unnotched Izod Impact (23°C, 3.18 mm)	480	J/m	ASTM D256
Gardner Impact	0.339	J	ASTM D3029
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load	ASTM D648		
0.45 MPa, Unannealed	166	°C	
1.8 MPa, Unannealed	157	°C	
Melting Temperature	171 to 193	°C	ASTM D789
Flammability	Nominal Value		Test Method
Flame Rating	HB		UL 94

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