

Adell Polyamide BR-18

Polyamide 6

Adell Plastics, Inc.

Message:

Adell Polyamide BR-18 is a Polyamide 6 (Nylon 6) material filled with 40% glass fiber. It is available in North America. Primary attribute of Adell Polyamide BR-18: Flame Rated.

General Information			
Filler / Reinforcement	Glass Fiber,40% Filler by Weight		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.45 to 1.47	g/cm ³	ASTM D792
Molding Shrinkage - Flow	0.10 to 0.40	%	ASTM D955
Water Absorption (24 hr)	1.0	%	ASTM D570
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness			ASTM D785
M-Scale	92		
R-Scale	122		
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength	179	MPa	ASTM D638
Tensile Elongation (Break)	2.0 to 3.0	%	ASTM D638
Flexural Modulus	9650	MPa	ASTM D790
Flexural Strength	228	MPa	ASTM D790
Compressive Strength	207	MPa	ASTM D695
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C, 3.18 mm)	130	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, Unannealed	218	°C	
1.8 MPa, Unannealed	216	°C	
Melting Temperature	216 to 227	°C	ASTM D789
Flammability	Nominal Value		Test Method
Flame Rating	HB		UL 94

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Recommended distributors for this material

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