

Adell PBT HR-16

Polybutylene Terephthalate

Adell Plastics, Inc.

Message:

Adell PBT HR-16 is a Polybutylene Terephthalate (PBT) material filled with 30% glass fiber. It is available in North America.

General Information			
Filler / Reinforcement	Glass Fiber,30% Filler by Weight		
Forms	Pellets		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.53	g/cm³	ASTM D792
Molding Shrinkage - Flow	0.20 to 0.50	%	ASTM D955
Water Absorption (24 hr)	0.60	%	ASTM D570
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness			ASTM D785
M-Scale	78		
R-Scale	118		
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield)	148	MPa	ASTM D638
Tensile Elongation (Break)	2.0	%	ASTM D638
Flexural Modulus	8550	MPa	ASTM D790
Flexural Strength (Yield)	203	MPa	ASTM D790
Compressive Strength	124	MPa	ASTM D695
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C, 3.18 mm)	96	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, Unannealed	216	°C	
1.8 MPa, Unannealed	210	°C	
Melting Temperature	238 to 249	°C	
CLTE - Flow	2.5E-5	cm/cm/°C	ASTM D696
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	3.2E+16	ohms·cm	ASTM D257
Dielectric Strength	19	kV/mm	ASTM D149

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