

Adell PBT HT-16

Polybutylene Terephthalate

Adell Plastics, Inc.

Message:

Adell PBT HT-16 is a Polybutylene Terephthalate (PBT) material filled with 30% glass fiber. It is available in North America. Primary attribute of Adell PBT HT-16: Impact Resistant.

General Information			
Filler / Reinforcement	Glass Fiber,30% 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 0.50	%	ASTM D955
Water Absorption (24 hr)	0.070	%	ASTM D570
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness			ASTM D785
M-Scale	69		
R-Scale	112		
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield)	85.5	MPa	ASTM D638
Tensile Elongation (Break)	4.0	%	ASTM D638
Flexural Modulus	5980	MPa	ASTM D790
Flexural Strength (Yield)	143	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			ASTM D256
-40°C, 3.18 mm	180	J/m	
23°C, 3.18 mm	350	J/m	
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, Unannealed	158	°C	
1.8 MPa, Unannealed	106	°C	
Melting Temperature	240 to 250	°C	
CLTE - Flow	5.0E-5	cm/cm/°C	ASTM D696
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	1.3E+16	ohms·cm	ASTM D257
Dielectric Strength	18	kV/mm	ASTM D149

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