

Beetle® PBTC115F

Polybutylene Terephthalate + PET
Teknor Apex Company (Chem Polymer)

Message:

PBTC115F is a reinforced PBT/PET alloy containing 15% glass fiber. It achieves the best balance of mechanical properties and heat resistance, with excellent surface finish and mold release.

General Information			
Filler / Reinforcement	Glass fiber reinforced material, 15% filler by weight		
Features	Highlight		
	Thermal stability, good		
	Good demoulding performance		
	Excellent appearance		
Forms	Particle		
Processing Method	Injection molding		
Resin ID (ISO 1043)	PBT+PET-GF15		
Physical	Nominal Value	Unit	Test Method
Density	1.42	g/cm ³	ISO 1183
Water Absorption (Equilibrium, 23°C, 50% RH)	0.15	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	6000	MPa	ISO 527-2
Tensile Stress (Yield)	90.0	MPa	ISO 527-2
Tensile Strain (Break)	3.0	%	ISO 527-2
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength	7.0	kJ/m ²	ISO 179
Charpy Unnotched Impact Strength	35	kJ/m ²	ISO 179
Notched Izod Impact	5.0	kJ/m ²	ISO 180
Unnotched Izod Impact Strength	20	kJ/m ²	ISO 180
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, not annealed	210	°C	ISO 75-2/B
1.8 MPa, not annealed	190	°C	ISO 75-2/A
Electrical	Nominal Value	Unit	Test Method
Comparative Tracking Index	300	V	IEC 60112
Flammability	Nominal Value	Unit	Test Method
Flame Rating (1.50 mm)	HB		UL 94
Injection	Nominal Value	Unit	
Drying Temperature	120	°C	
Drying Time	4.0	hr	

Rear Temperature	250 - 280	°C
Middle Temperature	250 - 280	°C
Front Temperature	250 - 280	°C
Processing (Melt) Temp	< 260	°C
Mold Temperature	130 - 150	°C
Injection Rate	Moderate	
Screw Speed	50 - 200	rpm

Injection instructions

背压:低注射压力:高

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