

Beetle® PBTS100T

Polybutylene Terephthalate

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			
Additive	Impact modifier		
Features	Impact resistance, good		
	Good liquidity		
	Good toughness		
	General		
Forms	Particle		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Density	1.29	g/cm ³	ISO 1183
Molding Shrinkage ¹	2.2	%	Internal method
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress (Break)	45.0	MPa	ISO 527-2
Tensile Strain (Break)	25	%	ISO 527-2
Flexural Modulus	1750	MPa	ISO 178
Flexural Stress	75.0	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength	35	kJ/m ²	ISO 179
Notched Izod Impact	25	kJ/m ²	ISO 180
Unnotched Izod Impact Strength	No Break		ISO 180
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, not annealed	135	°C	ISO 75-2/B
1.8 MPa, not annealed	55.0	°C	ISO 75-2/A
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	1.0E+16	ohms	IEC 60093
Volume Resistivity	1.0E+18	ohms · cm	IEC 60093
Dielectric Strength (3.00 mm)	12	kV/mm	IEC 60243-1
Comparative Tracking Index	500	V	IEC 60112
Injection	Nominal Value	Unit	
Drying Temperature	120	°C	
Drying Time	4.0	hr	

Rear Temperature	240 - 260	°C
Middle Temperature	240 - 260	°C
Front Temperature	240 - 260	°C
Processing (Melt) Temp	< 270	°C
Mold Temperature	70.0 - 90.0	°C
Injection Rate	Moderate	
Screw Speed	50 - 200	rpm
Injection instructions		
背压:低注射压力:高		
NOTE		

Mould shrinkage is significantly influenced by many factors including wall thickness, gating, component shape and moulding conditions. The range values stated were determined from specimen bar mouldings of 1.5mm to 4mm wall thickness. They are provided as a guide for comparison purposes only and no guarantee should be inferred from their inclusion. (Specimens measured in the dry state, 24 hours after moulding).

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