

Beetle® PBTS120S

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			
Filler / Reinforcement	Glass beads, 20% filler by weight		
Features	Scratch resistance		
	Good appearance		
	Excellent appearance		
	Medium hardness		
Forms	Particle		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Density	1.43	g/cm ³	ISO 1183
Molding Shrinkage ¹	1.2 - 1.6	%	Internal method
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	3300	MPa	ISO 527-2
Tensile Stress (Break)	60.0	MPa	ISO 527-2
Tensile Strain (Break)	4.0	%	ISO 527-2
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength	3.5	kJ/m ²	ISO 179
Charpy Unnotched Impact Strength	25	kJ/m ²	ISO 179
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, not annealed	180	°C	ISO 75-2/B
1.8 MPa, not annealed	75.0	°C	ISO 75-2/A
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	1.0E+15	ohms	IEC 60093
Volume Resistivity	1.0E+13	ohms · cm	IEC 60093
Dielectric Strength	20	kV/mm	IEC 60243-1
Comparative Tracking Index	225	V	IEC 60112
Flammability	Nominal Value	Unit	Test Method
Oxygen Index	21	%	ISO 4589-2
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

1.
- 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).

The information and data on this page are provided by manufacturers and document providers. SHANGHAI SUSHENG assumes no legal liability. It is strongly recommended to verify all technical data with material suppliers before final material selection. All rights belong to the original authors. If any infringement occurs, please contact us immediately.

Recommended distributors for this material


Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China


WECHAT