Beetle® PBTS115F

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 fiber reinforced material, 15% filler by weight		
Features	Highlight Good demoulding performance Excellent appearance		
Forms	Particle		
Processing Method	Injection molding		
Physical	**Nominal Value**	**Unit**	**Test Method**
Density	1.42	g/cm³	ISO 1183
Molding Shrinkage [1]	1.4 - 2.0	%	Internal method
Water Absorption (Equilibrium, 23°C, 50% RH)	0.070	%	ISO 62
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus	5500	MPa	ISO 527-2
Tensile Stress (Yield)	90.0	MPa	ISO 527-2
Tensile Strain (Break)	3.0	%	ISO 527-2
Flexural Modulus	6000	MPa	ISO 178
Flexural Stress	165	MPa	ISO 178
Impact	**Nominal Value**	**Unit**	**Test Method**
Charpy Notched Impact Strength	8.0	kJ/m²	ISO 179
Charpy Unnotched Impact Strength	45	kJ/m²	ISO 179
Notched Izod Impact	5.0	kJ/m²	ISO 180
Unnotched Izod Impact Strength	25	kJ/m²	ISO 180
Thermal	**Nominal Value**	**Unit**	**Test Method**
Heat Deflection Temperature			
0.45 MPa, not annealed	> 200	°C	ISO 75-2/B
1.8 MPa, not annealed	155	°C	ISO 75-2/A
Electrical	**Nominal Value**	**Unit**	**Test Method**
Surface Resistivity	1.0E+16	ohms	IEC 60093
Volume Resistivity	1.0E+16	ohms·cm	IEC 60093
Dielectric Strength (3.00 mm)	15	kV/mm	IEC 60243-1
Relative Permittivity	3.40		IEC 60250
Dissipation Factor (1 MHz)	0.010		IEC 60250

Comparative Tracking Index	300	V	IEC 60112
Flammability	Nominal Value	Unit	Test Method
Flame Rating (1.50 mm)	HB		Internal method
Oxygen Index	20	%	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	80.0 - 100	°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).		

Recommended distributors for this material

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