Beetle® PBTS800

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			
Features	Good dimensional stability		
	Good electrical performance		
	Flame retardancy		
Forms	Particle		
Processing Method	Injection molding		
Physical	**Nominal Value**	**Unit**	**Test Method**
Density	1.43	g/cm³	ISO 1183
Molding Shrinkage [1]	1.6 - 2.6	%	Internal method
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Stress (Break)	57.0	MPa	ISO 527-2
Tensile Strain (Break)	7.0	%	ISO 527-2
Flexural Modulus	2700	MPa	ISO 178
Flexural Stress			ISO 178
3.5% strain [2]	84.0	MPa	ISO 178
-- [3]	99.0	MPa	ISO 178
Flexural Strain at Break	6.4	%	ISO 178
Impact	**Nominal Value**	**Unit**	**Test Method**
Notched Izod Impact	2.5	kJ/m²	ISO 180
Thermal	**Nominal Value**	**Unit**	**Test Method**
Heat Deflection Temperature			
0.45 MPa, not annealed	160	°C	ISO 75-2/B
1.8 MPa, not annealed	60.0	°C	ISO 75-2/A
Electrical	**Nominal Value**	**Unit**	**Test Method**
Surface Resistivity	1.0E+15	ohms	IEC 60093
Volume Resistivity	1.0E+15	ohms·cm	IEC 60093
Dielectric Strength (3.00 mm)	23	kV/mm	IEC 60243-1
Comparative Tracking Index	250	V	IEC 60112
Flammability	**Nominal Value**	**Unit**	**Test Method**
Flame Rating (1.50 mm)	V-0		Internal method
Glow Wire Flammability Index (1.50 mm)	960	°C	IEC 60695-2-12
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).
2.	Conventional deflection
3.	Yield strength

Recommended distributors for this material

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