

# Beetle® PET110

Polyethylene 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			
Uses	Wire and cable applications		
	Wire sheath		
Appearance	Opacity		
Forms	Particle		
Processing Method	Extrusion		
Physical	Nominal Value	Unit	Test Method
Density	1.34 - 1.50	g/cm <sup>3</sup>	ISO 1183
Mechanical	Nominal Value	Unit	Test Method
Flexural Modulus	2000 - 2600	MPa	ISO 178
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (1.8 MPa, Unannealed)	65.0 - 85.0	°C	ISO 75-2/A
Additional Information	Nominal Value	Unit	Test Method
Filler Content	0.0 - 25	%	Internal method
Extrusion	Nominal Value	Unit	
Drying Temperature	140	°C	
Drying Time	4.0	hr	
Cylinder Zone 1 Temp.	260 - 300	°C	
Cylinder Zone 3 Temp.	260 - 300	°C	
Cylinder Zone 5 Temp.	260 - 300	°C	
Melt Temperature	< 300	°C	
Extrusion instructions			

Polyester grades are very sensitive to moisture content during processing. Suitable pre-drying is essential. Excess moisture causes rapid hydrolytic degradation of the melt and severe impairment of mechanical properties. Low melt viscosity & brittle product are often the key indicators. Vacuum or dehumidified air driers must be used.

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