

Beetle® PET166F

Polyethylene Terephthalate

Teknor Apex Company (Chem Polymer)

Message:

PET166F is a reinforced PET containing 30% glass fiber, which has good mechanical properties and excellent mold release at high temperature.

General Information			
Filler / Reinforcement	Glass fiber reinforced material, 30% filler by weight		
Features	Good demoulding performance		
Forms	Particle		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Density	1.60	g/cm ³	ISO 1183
Molding Shrinkage	0.50 - 1.2	%	ISO 294-4
Water Absorption (Equilibrium, 23°C, 50% RH)	0.080	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	10200	MPa	ISO 527-2
Tensile Stress (Yield)	130	MPa	ISO 527-2
Tensile Strain (Break)	2.0	%	ISO 527-2
Flexural Modulus	9500	MPa	ISO 178
Flexural Stress	220	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength	11	kJ/m ²	ISO 179
Charpy Unnotched Impact Strength	40	kJ/m ²	ISO 179
Notched Izod Impact	7.0	kJ/m ²	ISO 180
Unnotched Izod Impact Strength	35	kJ/m ²	ISO 180
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (1.8 MPa, Unannealed)	> 220	°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)	12	kV/mm	IEC 60243-1
Comparative Tracking Index	300	V	IEC 60112
Flammability	Nominal Value	Unit	Test Method
Flame Rating (1.57 mm)	HB		UL 94
Oxygen Index	21	%	ISO 4589-2
Injection	Nominal Value	Unit	
Drying Temperature	140	°C	
Drying Time	4.0	hr	

Rear Temperature	260 - 280	°C
Middle Temperature	260 - 280	°C
Front Temperature	260 - 280	°C
Processing (Melt) Temp	< 290	°C
Mold Temperature	120 - 140	°C
Injection Rate	Fast	
Screw Speed	50 - 100	rpm

Injection instructions

背压:低注射压力:高

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