


Product Information

PBT 4500				
Coat-free Polybutylene Terephthalate				
	Characteristics	High gloss, coat-free, low haze, high heat resistance.		
	Applications	Head lamp bezel, etc.		
Properties (23°C)	Typical Value^[1]	Unit	Test Method	
Mechanical				
Tensile Stress	58	MPa	ISO 527	
Tensile Strain	23	%	ISO 527	
Flexural Stress	85	MPa	ISO 178	
Flexural Modulus	2400	MPa	ISO 178	
Charpy Impact (Unnotched)	185	kJ/m²	ISO 179	
Thermal				
HDT (0.45MPa,120°C/h)	161	°C	ISO 75	
Other				
Density	1.31	g/cm³	ISO 1183	
Surface Resistivity	1E14	Ohm	IEC 60093	
Flammability	HB	Class	UL-94	
Mold Shrinkage (MD)	1.7-2.0	%	ISO 294	
Mold Shrinkage (TD)	1.7-2.2	%	ISO 294	
Haze (160 °C/24 h)	3.36	%	SKGY0013	
Molding Process^[2]				
Drying Condition	Temperature		120-140 °C	
	Time		4-6 h	
Mold Temperature	30-70 °C			
Barrel Temperature	Nozzle	Front	Middle	Rear
	230-250 °C	240-260 °C	230-250 °C	210-230 °C

Note: [1] These figures are only intended as a guide and should not be used in preparing specifications.

[2] The molding process is only for reference and can be adjusted according to different models and products.

PBT T425

Mineral Filled Polybutylene Terephthalate


Characteristics

High dimensional stability, good thermal stability, excellent processing performance, prime coating.

Applications

Auto-lamp decorative box, lamp reflector bowl, etc

Properties (23°C)	Typical Value ^[1]	Unit	Test Method
Mechanical			
Tensile Stress	56	MPa	ISO 527
Tensile Strain	2.0	%	ISO 527
Flexural Stress	100	MPa	ISO 178
Flexural Modulus	4500	MPa	ISO 178
Izod Impact Strength (Unnotched)	45	kJ/m ²	ISO 180
Thermal			
Heat Deflection Temperature(0.45MPa)	175	°C	ISO 75
Other			
Density	1.48	g/cm ³	ISO 1183
Surface Resistivity	1E14	Ohm	IEC 60093
Flammability	HB	Class	UL-94
Mold Shrinkage (MD)	0.6-1.0	%	ISO 294
Mold Shrinkage (TD)	0.7-1.1	%	ISO 294
Molding Process^[2]			
Drying Condition	Temperature		120-140 °C
	Time		2-3 h
Mold Temperature	30-50 °C		
Barrel Temperature	Nozzle	Front	Middle
	230-250 °C	230-260 °C	230-250 °C
			Rear
			220-240 °C

Note: [1] These figures are only intended as a guide and should not be used in preparing specifications.

[2] The molding process is only for reference and can be adjusted according to different models and products.