

# Kanghui KH2083

Polybutylene Terephthalate

Yingkou Kanghui Petrochemical Co., LTD.

Message:

PBT is made from PTA and BD which form into polybutylene terephthalate (referred as PBT) after the continuous process of esterification and polycondensation. It is a kind of crystalline and thermoplastic polyester with the features of high heat resistance, toughness, fatigue resistance, high insulation resistance, dimensional stability, preferable elasticity and dyeing property and used in the field of automotive, electronic and electrical appliances, industrial machinery, civil and industrial textile, polymer alloy and blending industry, etc..

General Information			
Features	Good dimensional stability		
	Fatigue resistance		
	Heat resistance, high		
	Good toughness		
Uses	Electrical/Electronic Applications		
	Electrical appliances		
	Industrial application		
	Mixing		
	Application in Automobile Field		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.30 - 1.32	g/cm <sup>3</sup>	ASTM D792
Melt Mass-Flow Rate (MFR) (250°C/2.16 kg)	60 - 75	g/10 min	ASTM D1238
Color b	1.00 - 3.00		Q/KHS001
Color L	> 95.0		Q/KHS001
Particle Mass	1.90 - 2.10	g/100 pcs	Q/KHS001
Intrinsic Viscosity	0.82 - 0.84	dl/g	Q/KHS001
Moisture Content		wt%	Q/KHS001
Ash Content		mg/kg	Q/KHS001
Carboxyl End Groups		mol/t	Q/KHS001
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength	45.0 - 55.0	MPa	ASTM D638
Tensile Elongation (Break)	> 50	%	ASTM D638
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	> 39	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Melting Temperature	> 222	°C	Q/KHS001
Electrical	Nominal Value	Unit	Test Method
Dielectric Strength (2.00 mm)	> 20	kV/mm	ASTM D149

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