



ISO-9001 Certified

UL file No.: E531449

北化院北研科技

BEIHUAYUAN BEIYAN TECHNOLOGY

广东北研新材料科技有限公司

GUANGDONG BEIYAN NEW MATERIALS TECHNOLOGY CO., LTD.

## Technical Data Sheet

### PET BY2030

#### Product description:

Beiyan PET BY2030 is a 30% glass reinforced, flame retardant, modified polyethylene terephthalate resin.

#### Polymeric basis

Filler / Additive system features	30% glass fiber/chemically coupled
Processing	High strength, High rigidity and Heat resistance
RoHS compliance	Injection molding
	RoHS compliant

Properties	Value	Unit	Standard
Density	1.57	g/cm <sup>3</sup>	ISO1183
Water absorption 2mm	0.12	%	ISO 62
Shrinkage xFlow 80°C, 48hr	0.4-0.8	%	ISO 294-4
Mechanical properties	Value	Unit	Standard
Tensile stress at break	155	MPa	ISO 527
Elongation break	2.8	%	ISO 527
Flexural strength	230	MPa	ISO 178
Flexural modulus	10600	MPa	ISO 178
Impact performance	Value	Unit	Standard
Charpy impact strength(notched)	9	KJ/m <sup>2</sup>	ISO 179(1eA)
Charpy impact strength (unnotched)	60	KJ/m <sup>2</sup>	ISO 179(1eU)
Thermal properties	Value	Unit	Standard
Heat deflection temperature HDT A (1.82MPa)	235	°C	ISO 75f
Electrical	Value	Unit	Standard
Dielectric constant (106Hz)	3		IEC 60250
Dissipation factor (106Hz)	2×10 <sup>-2</sup>		IEC 60250
Volume resistivity	1×10 <sup>13</sup>	Ω•m	IEC 60093
Electric strength	29	KV/mm	IEC 60243
Flammability	Value	Unit	Standard
UL flame retardant grade	V0		UL-94
Injection molding	Value	Unit	Standard
Dry temperature	105-120	°C	
Dry time	4-6	hr	
Processing melt temperature	245-275	°C	
Mold temperature	70-120	°C	

Note: the above data for typical performance index, only for users to select brand reference, not as the products out of the factory acceptance of the legal basis. Users should be used for resin in before test, in order to avoid products are serious or slight defects.

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