



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

PBT BY301G15F

Product description:

Beiyan PBT BY301G15F is a 15% glass reinforced, flame retardant, modified polybutylene terephthalate resin.

Polymeric basis

Filler / Additive system	15% glass fiber/chemically coupled
Features	Flame retardant, high strength, high rigidity and heat resistance
Processing	Injection molding
RoHS compliance	RoHS compliant
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Properties	Value	Unit	Standard
Density	1.52	g/cm ³	ISO1183
Melt volume rate MFR (260/2.16)	15	g/10 min	GB/T3682
Water absorption 2mm	0.13	%	ISO 62
Shrinkage xFlow 80℃, 48hr	0.5-0.9	%	ISO 294-4
Mechanical properties	Value	Unit	Standard
Tensile stress at break	105	MPa	ISO 527
Elongation break	3.8	%	ISO 527
Flexural strength	160	MPa	ISO 178
Flexural modulus	5380	MPa	ISO 178
Impact performance	Value	Unit	Standard
Charpy impact strength(notched)	7	KJ/m ²	ISO 179(1eA)
Charpy impact strength (unnotched)	35	KJ/m ²	ISO 179(1eU)
Thermal properties	Value	Unit	Standard
Heat deflection temperature HDT A (1.82MPa)	185	℃	ISO 75f
Electrical	Value	Unit	Standard
Dielectric constant (106Hz)	3.2		IEC 60250
Dissipation factor (106Hz)	1.8×10 ⁻²		IEC 60250
Volume resistivity	1×10 ¹⁴	Ω•m	IEC 60093
Electric strength	32	KV/mm	IEC 60243
Flammability	Value	Unit	Standard
UL flame retardant grade (3.0mm)	V0		UL-94
Injection molding	Value	Unit	Standard
Dry temperature	110-130	℃	
Dry time	4-6	hr	
Processing melt temperature	225-250	℃	
Mold temperature	40-80	℃	

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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