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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

PC/PBT BY551F

Product description:

Beiyan PC/PBT BY551F is a 30% glass reinforced, flame retardant, modified Polycarbonate /Polybutylene terephthalate resin.

Polymeric basis			
Filler / Additive system	30% glass fiber/chemically coupled		
features	Low warpage,High rigidity		
Processing	Injection molding		
RoHS compliance	RoHS compliant		
Properties	Value	Unit	Standard
Density	1.6	g/cm ³	GB/T1033
Melt volume rate MFR (260/2.16)	27	g/10 min	GB/T3682
Shrinkage xFlow 80℃, 48hr	0.4-0.8	%	GB/T3682
Mechanical properties	Value	Unit	Standard
Tensile stress at break	90	MPa	GB/T1040
Elongation break	5.0	%	GB/T1040
Flexural strength	132	MPa	GB/T9341
Flexural modulus	7600	MPa	GB/T9341
Impact performance	Value	Unit	Standard
Impact strength of cantilever beam (notch)	7	KJ/m ²	GB/T1843
Thermal properties	Value	Unit	Standard
Heat deflection temperature HDT A (1.82MPa)	162	℃	GB/T1634
Electrical	Value	Unit	Standard
Dielectric constant (106Hz)	3.5		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 (1.5mm)	V0		UL-94
Injection molding	Value	Unit	Standard
Dry temperature	110-130	℃	
Dry time	4-6	hr	
Processing melt temperature	225-250	℃	
Mold temperature	60-120	℃	

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.

BEIHUAYUAN BEIYAN TECHNOLOGY
Add: Room 601, building 1, No. 770,
Xiegao Road, Xiegang Town, Dongguan
Tel:0769-82858489 Fax: 0769-82858489

BEIYAN
Web: <http://www.bbtrm.com>