



ISO-9001 Certified

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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

PA66 BY303G15F

Product description:

Beiyan PA66 BY303G15F is a 15% glass reinforced, flame retardant, modified Polyadiohexylenediamine resin.

Polymeric basis			
Filler / Additive system	15% glass fiber/chemically coupled		
Features	Halogen-free and red phosphorus free flame retardancy, High strength and impact resistance		
Processing	Injection molding		
RoHS compliance	RoHS compliant		
Properties	Value	Unit	Standard
Density	1.50	g/cm ³	ISO1183
Water absorption 2mm	0.12	%	ISO 62
Shrinkage xFlow 80℃, 48hr	0.5-0.9	%	ISO 294-4
Mechanical properties	Value	Unit	Standard
Tensile stress at break	100	MPa	ISO 527
Elongation break	5	%	ISO 527
Flexural strength	150	MPa	ISO 178
Flexural modulus	5200	MPa	ISO 178
Impact performance	Value	Unit	Standard
Charpy impact strength(notched)	9	KJ/m ²	ISO 179(1eA)
Charpy impact strength (unnotched)	60	KJ/m ²	ISO 179(1eU)
Thermal properties	Value	Unit	Standard
Heat deflection temperature HDT A (1.82MPa)	180	℃	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 (1.6mm)	V0		UL-94
Injection molding	Value	Unit	Standard
Dry temperature	100-120	℃	
Dry time	4-6	hr	
Processing melt temperature	225-260	℃	
Mold temperature	60-100	℃	

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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