

BV2120G20

Type : 20% Glass fiber-reinforced, flame retardant (UL94 V-0, Halogen)

Identification mark : PA66-GF20FR(17)

Property	Test conditions	Standard	Unit	DAM	Conditioned (50%RH)	
MECHANICAL	Tensile stress at yield	ISO 527-1,-2	MPa	140	100	
	Tensile stress at break					
	Tensile modulus		MPa			8900
	Tensile strain at yield		ISO 527-1,-2	%	2	3
	Tensile strain at break					
	Flexural strength		ISO 178	MPa	220	160
	Flexural modulus			MPa	8100	5500
	Charpy impact strength	unnotched	ISO 179/1eU	kJ/m ²	38	54
	Charpy impact strength	notched	ISO 179/1eA		7	9
	Rockwell Hardness	R Scale	ISO 2039-2	—	114	101
THERMAL	Thermal conductive	Planar direction Thickness direction	ISO 18755	W/(m·K)		
	Coefficient of linear thermal expansion	flow transverse	ISO 11359-2	10 ⁻⁴ /°C	0.4	
	Temperature of deflection under load	1.8MPa 0.45MPa	ISO 75-1,-2	°C	225 250	
ELECTRICAL	Volume resistivity		IEC 62631-3-1	Ω·m	10 ¹³	
	Electric strength	t:1mm	IEC 60243-1	kV/mm	28	
	Relative permittivity	10 ⁶ Hz	IEC 62631-2-1	—	3.6	
	Dissipation factor	10 ⁶ Hz	IEC 62631-2-1	—	0.02	
	Comparative tracking Index		IEC 60112	—		
OTHERS	Density		ISO 1183	g/cm ³	1.55	
	Water absorption	23°C,50%RH	ISO 62	%	1.1	
	Mold shrinkage	flow transverse	UNITIKA Method 3mmt	%	0.4 0.8	
	MVR	275°C,5kg	ISO 1133	cm ³ /10min		
	Flammability	0.75mmt	UL94 File No.E47924	—	V-0	
Mold conditions	Cylinder Temperature			°C	270-295	
	Mold temperature			°C	80-120	

The data listed here are typical of average lots and not guaranteed values .