

B2040G50

Type : 50% Glass fiber-reinforced, good appearance

Identification mark : PA66-GF50

Property	Test conditions	Standard	Unit	DAM	Conditioned (50%RH)	
MECHANICAL	Tensile stress at yield	ISO 527-1,-2	MPa	235	175	
	Tensile stress at break					
	Tensile modulus		MPa	16700	11200	
	Tensile strain at yield		%	2	3	
	Tensile strain at break					
	Flexural strength	ISO 178	MPa	360	230	
	Flexural modulus		MPa	14200	10900	
	Charpy impact strength	unnotched	ISO 179/1eU	kJ/m ²	95	102
	Charpy impact strength	notched	ISO 179/1eA		16	20
	Rockwell Hardness	R Scale	ISO 2039-2	—	120	
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	0.2	
	Temperature of deflection under load	1.8MPa 0.45MPa	ISO 75-1,-2	°C	235 255	
ELECTRICAL	Volume resistivity		IEC 62631-3-1	Ω·m	10 ¹²	
	Electric strength	t:1mm	IEC 60243-1	kV/mm	35	
	Relative permittivity	10 ⁶ Hz	IEC 62631-2-1	—	3.3	
	Dissipation factor	10 ⁶ Hz	IEC 62631-2-1	—	0.02	
	Comparative tracking Index		IEC 60112	—	600	
OTHERS	Density		ISO 1183	g/cm ³	1.57	
	Water absorption	23°C,50%RH	ISO 62	%	1.4	
	Mold shrinkage	flow transverse	UNITIKA Method 3mmt	%	0.2 0.6	
	MVR	275°C,5kg	ISO 1133	cm ³ /10min	20	
	Flammability	mmt	UL94 File No.E47924	—		
	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 .