

B2040G33

Type : 33% Glass fiber-reinforced, good appearance

Identification mark : PA66-GF33

Property	Test conditions	Standard	Unit	DAM	Conditioned (50%RH)	
MECHANICAL	Tensile stress at yield	ISO 527-1,-2	MPa	180	130	
	Tensile stress at break					
	Tensile modulus		MPa	10000	6700	
	Tensile strain at yield		%	3	4	
	Tensile strain at break					
	Flexural strength	ISO 178	MPa	275	190	
	Flexural modulus		MPa	9000	6500	
	Charpy impact strength	unnotched	ISO 179/1eU	kJ/m ²	75	80
	Charpy impact strength	notched	ISO 179/1eA		10	14
	Rockwell Hardness	R Scale	ISO 2039-2	—	120	
THERMAL	Thermal conductive	Planar direction	W/(m·K)			
		Thickness direction				
	Coefficient of linear thermal expansion	flow transverse	ISO 11359-2	10 ⁻⁴ /°C	0.4	
Temperature of deflection under load	1.8MPa	ISO 75-1,-2	°C	230		
	0.45MPa			250		
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	—	3.5	
	Dissipation factor	10 ⁶ Hz	IEC 62631-2-1	—	0.02	
	Comparative tracking Index		IEC 60112	—		
OTHERS	Density	ISO 1183	g/cm ³	1.39		
	Water absorption	23°C,50%RH	ISO 62	%	1.7	
	Mold shrinkage	flow	UNITIKA Method 3mmt	%	0.3	
		transverse			0.8	
	MVR	275°C,5kg	ISO 1133	cm ³ /10min	45	
	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 .