

BV2120

Type : Nonreinforced, flame retardant (UL94 V-0, Halogen)

Identification mark : PA66-FR(17)

Property	Test conditions	Standard	Unit	DAM	Conditioned (50%RH)	
MECHANICAL	Tensile stress at yield	ISO 527-1,-2	MPa	80	50	
	Tensile stress at break					
	Tensile modulus		MPa	3300	1600	
	Tensile strain at yield		%	3	5	
	Tensile strain at break					
	Flexural strength	ISO 178	MPa	120	70	
	Flexural modulus		MPa	3200	1500	
	Charpy impact strength	unnotched	ISO 179/1eU	kJ/m ²	41	56
	Charpy impact strength	notched	ISO 179/1eA		3	5
	Rockwell Hardness	R Scale	ISO 2039-2	—	115	96
THERMAL	Thermal conductive	ISO 18755	W/(m·K)			
	Planar direction					
	Thickness direction					
Coefficient of linear thermal expansion	flow transverse	ISO 11359-2	10 ⁻⁴ /°C	0.7		
Temperature of deflection under load	1.8MPa	ISO 75-1,-2	°C	90		
	0.45MPa			160		
ELECTRICAL	Volume resistivity	IEC 62631-3-1	Ω·m	10 ¹³		
	Electric strength	t:1mm	IEC 60243-1	kV/mm	25	
	Relative permittivity	10 ⁶ Hz	IEC 62631-2-1	—	3.6	
	Dissipation factor	10 ⁶ Hz	IEC 62631-2-1	—	0.01	
	Comparative tracking Index		IEC 60112	—		
OTHERS	Density	ISO 1183	g/cm ³	1.33		
	Water absorption	23°C,50%RH	ISO 62	%	1.5	
	Mold shrinkage	flow	UNITIKA Method 3mmt	%	1.5	
		transverse			1.7	
	MVR	275°C,5kg	ISO 1133	cm ³ /10min		
	Flammability	0.75mmt	UL94 File No.E47924	—	V-0	
Mold conditions	Cylinder Temperature		°C	270-290		
	Mold temperature		°C	60-110		

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