

AN1020

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

Identification mark : PA6-FR(30)

Property	Test conditions	Standard	Unit	DAM	Conditioned (50%RH)	
MECHANICAL	Tensile stress at yield	ISO 527-1,-2	MPa	70	35	
	Tensile stress at break					
	Tensile modulus		MPa	3300	1600	
	Tensile strain at yield		ISO 178	%	3	6
	Tensile strain at break					
	Flexural strength		ISO 178	MPa	115	40
	Flexural modulus			MPa	3300	1200
	Charpy impact strength	unnotched	ISO 179/1eU	kJ/m ²	3	6
	Charpy impact strength	notched	ISO 179/1eA			
	Rockwell Hardness	R Scale	ISO 2039-2	—	117	100
THERMAL	Thermal conductive	Planar direction	ISO 18755	W/(m·K)		
		Thickness direction				
	Coefficient of linear thermal expansion	flow transverse	ISO 11359-2	10 ⁻⁴ /°C	1.0	
Temperature of deflection under load	1.8MPa	ISO 75-1,-2	°C	70		
	0.45MPa			185		
ELECTRICAL	Volume resistivity	IEC 62631-3-1	Ω·m			
	Electric strength	t:1mm	IEC 60243-1	kV/mm		
	Relative permittivity	10 ⁶ Hz	IEC 62631-2-1	—		
	Dissipation factor	10 ⁶ Hz	IEC 62631-2-1	—		
	Comparative tracking Index		IEC 60112	—	600	
OTHERS	Density	ISO 1183	g/cm ³	1.16		
	Water absorption	23°C,50%RH	ISO 62	%	2.5	
	Mold shrinkage	flow	UNITIKA Method 3mmt	%	1.4	
		transverse			1.5	
	MVR	275°C,5kg	ISO 1133	cm ³ /10min	300<	
	Flammability	0.5mmt	UL94 File No.E47924	—	V-0	
Mold conditions	Cylinder Temperature		°C	230-260		
	Mold temperature		°C	50-100		

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