Nylon66

EN1012G30

Type : 30% Glass fiber-reinforced, flame retardant（UL94 V-0, Halogen free）

Identification mark ：PA66-GF30FR(40)

	Property	Test conditions	Standard	Unit	DAM	Conditioned (50%RH)
MECHANICAL	Tensile stress at yield Tensile stress at break		ISO 527-1,-2	MPa	160	120
	Tensile modulus			MPa	11800	9300
	Tensile strain at yield Tensile strain at break			%	3	3
	Flexural strength		ISO 178	MPa	255	190
	Flexural modulus			MPa	11100	8100
	Charpy impact strength	unnotched	ISO 179/1eU	kJ/m^2		
	Charpy impact strength	notched	ISO 179/1eA		9	10
	Rockwell Hardness	R Scale	ISO 2039-2	—		
THERMAL	Thermal conductive	Planar direction Thickness direction	ISO 18755	W/(m･K)		
	Coefficient of linear thermal expansion	flow transverse	ISO 11359-2	$10^{-4}/^{o}C$		
	Temperature of deflection under load	1.8MPa 0.45MPa	ISO 75-1,-2	^{o}C	250	
ELECTRICAL	Volume resistivity		IEC 62631-3-1	Ω･m	10^{13}	
	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	1.44	
	Water absorption	23°C,50%RH	ISO 62	%	1.2	
	Mold shrinkage	flow transverse	UNITIKA Method 3mmt	%	0.3 0.8	
	MVR	275°C,5kg	ISO 1133	cm^3/10min		
	Flammability	0.8mmt	UL94 File No.E47924	—	V-0	
Mold conditions	Cylinder Temperature			^{o}C	270-295	
	Mold temperature			^{o}C	80-120	

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

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