

A1025GOS

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

Identification mark : PA6-GF30FR(17)

	Property	Test conditions	Standard	Unit	DAM	Conditioned (50%RH)
MECHANICAL	Tensile stress at yield		ISO 527-1,-2	MPa	150	110
	Tensile stress at break					
	Tensile modulus			MPa	10800	7000
	Tensile strain at yield			%	2	3
	Tensile strain at break					
	Flexural strength		ISO 178	MPa	250	140
	Flexural modulus			MPa	9200	6000
	Charpy impact strength	unnotched	ISO 179/1eU	kJ/m ²	22	31
	Charpy impact strength	notched	ISO 179/1eA		9	14
	Rockwell Hardness	R Scale	ISO 2039-2	—	118	103
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	0.3	
	Temperature of deflection under load	1.8MPa 0.45MPa	ISO 75-1,-2	°C	200 215	
ELECTRICAL	Volume resistivity		IEC 62631-3-1	Ω·m	10 ¹³	10 ¹¹
	Electric strength	t:1mm	IEC 60243-1	kV/mm	25	
	Relative permittivity	10 ⁶ Hz	IEC 62631-2-1	—	3.8	
	Dissipation factor	10 ⁶ Hz	IEC 62631-2-1	—	0.02	
	Comparative tracking Index		IEC 60112	—		
OTHERS	Density		ISO 1183	g/cm ³	1.64	
	Water absorption	23°C, 50%RH	ISO 62	%	1.0	
	Mold shrinkage	flow transverse	UNITIKA Method 3mmt	%	0.2 0.7	
	MVR	275°C, 5kg	ISO 1133	cm ³ /10min		
	Flammability	0.87mmt	UL94 File No.E47924	—	V-0	
Mold conditions	Cylinder Temperature			°C	250-270	
	Mold temperature			°C	80-120	

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