Nylon6

A1030GFL15

Type : 15% Glass fiber-reinforced

Identification mark ：PA6-GF15

	Property	Test conditions	Standard	Unit	DAM	Conditioned (50%RH)
MECHANICAL	Tensile stress at yield Tensile stress at break		ISO 527-1,-2	MPa	 120	 70
	Tensile modulus			MPa	5500	3000
	Tensile strain at yield Tensile strain at break			%	 3	 5
	Flexural strength		ISO 178	MPa	170	100
	Flexural modulus			MPa	5000	2800
	Charpy impact strength	unnotched	ISO 179/1eU	kJ/m^2	23	33
	Charpy impact strength	notched	ISO 179/1eA		7	14
	Rockwell Hardness	R Scale	ISO 2039-2	—	116	103
THERMAL	Thermal conductive	Planar direction Thickness direction	ISO 18755	W/(m·K)		
	Coefficient of linear thermal expansion	flow transverse	ISO 11359-2	$10^{-4}/^oC$	0.4	
	Temperature of deflection under load	1.8MPa 0.45MPa	ISO 75-1,-2	^oC	190 215	
ELECTRICAL	Volume resistivity		IEC 62631-3-1	Ω·m	10^{13}	10^{11}
	Electric strength	t:1mm	IEC 60243-1	kV/mm	39	36
	Relative permittivity	10^6Hz	IEC 62631-2-1	—	3.3	
	Dissipation factor	10^6Hz	IEC 62631-2-1	—		
	Comparative tracking Index		IEC 60112	—		
OTHERS	Density		ISO 1183	g/cm^3	1.23	
	Water absorption	23°C,50%RH	ISO 62	%	2.4	
	Mold shrinkage	flow transverse	UNITIKA Method 3mmt	%	0.4 0.9	
	MVR	275°C,5kg	ISO 1133	cm^3/10min	75	
	Flammability	0.75mmt	UL94 File No.E47924	—	HB	
Mold conditions	Cylinder Temperature			^oC	250-270	
	Mold temperature			^oC	80-120	

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