

A1030FR

Type : High impact strength

Identification mark : PA6

	Property	Test conditions	Standard	Unit	DAM	Conditioned (50%RH)
MECHANICAL	Tensile stress at yield		ISO 527-1,-2	MPa	80	40
	Tensile stress at break					
	Tensile modulus			MPa	2500	900
	Tensile strain at yield			%	4	25
	Tensile strain at break				70	200<
	Flexural strength		ISO 178	MPa	100	35
	Flexural modulus			MPa	2500	900
	Charpy impact strength	unnotched	ISO 179/1eU	kJ/m ²	NB	NB
	Charpy impact strength	notched	ISO 179/1eA		5	43
	Rockwell Hardness	R Scale	ISO 2039-2	—	112	90
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	1.0	
	Temperature of deflection under load	1.8MPa 0.45MPa	ISO 75-1,-2	°C	60 155	
ELECTRICAL	Volume resistivity		IEC 62631-3-1	Ω·m	10 ¹³	10 ¹¹
	Electric strength	t:1mm	IEC 60243-1	kV/mm	37	33
	Relative permittivity	10 ⁶ Hz	IEC 62631-2-1	—	3.4	3.7
	Dissipation factor	10 ⁶ Hz	IEC 62631-2-1	—	0.02	0.08
	Comparative tracking Index		IEC 60112	—	600<	
OTHERS	Density		ISO 1183	g/cm ³	1.13	
	Water absorption	23°C,50%RH	ISO 62	%	2.8	
	Mold shrinkage	flow transverse	UNITIKA Method 3mmt	%	1.5 1.6	
	MVR	275°C,5kg	ISO 1133	cm ³ /10min	70	
	Flammability	0.86mmt	UL94 File No.E47924	—	HB	
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 .