

M1030E

Type : High strength, high rigidity, low density

Identification mark : PA6

Property	Test conditions	Standard	Unit	DAM	Conditioned (50%RH)
MECHANICAL	Tensile stress at yield	ISO 527-1,-2	MPa	95	70
	Tensile stress at break				
	Tensile modulus		MPa	5600	3100
	Tensile strain at yield		%	3	4
	Tensile strain at break				
	Flexural strength	ISO 178	MPa	155	70
	Flexural modulus		MPa	5500	3000
	Charpy impact strength	unnotched	kJ/m ²	4	7
	Charpy impact strength	notched			
	Rockwell Hardness	R Scale	—		
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	0.5
	Temperature of deflection under load	1.8MPa 0.45MPa	ISO 75-1,-2	°C	145 195
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	—	
OTHERS	Density		ISO 1183	g/cm ³	1.15
	Water absorption	23°C,50%RH	ISO 62	%	2.8
	Mold shrinkage	flow transverse	UNITIKA Method 3mmt	%	1.0 1.2
	MVR	275°C,5kg	ISO 1133	cm ³ /10min	80
	Flammability	mmt	UL94 File No.E47924	—	
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 .