

A1030R

Type : Microcrystal type, deep-molding, good printability

Identification mark : PA6

Property	Test conditions	Standard	Unit	DAM	Conditioned (50%RH)	
MECHANICAL	Tensile stress at yield	ISO 527-1,-2	MPa	85	55	
	Tensile stress at break					
	Tensile modulus		%	2900	1200	
	Tensile strain at yield	4		25		
	Tensile strain at break	30	150			
	Flexural strength	ISO 178	MPa	105	50	
	Flexural modulus		MPa	2800	1200	
	Charpy impact strength	unnotched	ISO 179/1eU	kJ/m ²	NB	NB
	Charpy impact strength	notched	ISO 179/1eA		4	31
	Rockwell Hardness	R Scale	ISO 2039-2	—	120	85
THERMAL	Thermal conductive	ISO 18755	W/(m·K)			
	Planar direction					
	Thickness direction					
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	65 170		
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	1.14		
	Water absorption	23°C,50%RH	ISO 62	%	2.8	
	Mold shrinkage	flow	UNITIKA Method 3mmt	%	1.3	
		transverse			1.5	
	MVR	275°C,5kg	ISO 1133	cm ³ /10min	220	
	Flammability	0.84mmt	UL94 File No.E47924	—	V-2	
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 .