

A3030N-3

Type : 30% Mineral filler-reinforced, flame retardant (UL94 V-2, Halogen free)

Identification mark : PA6-MD30FR(30)

Property	Test conditions	Standard	Unit	DAM	Conditioned (50%RH)	
MECHANICAL	Tensile stress at yield	ISO 527-1,-2	MPa	75	50	
	Tensile stress at break					
	Tensile modulus		MPa	5500	2600	
	Tensile strain at yield		%	5	15	
	Tensile strain at break					
	Flexural strength	ISO 178	MPa	125	65	
	Flexural modulus		MPa	5000	2400	
	Charpy impact strength	unnotched	ISO 179/1eU	kJ/m ²	50	52
	Charpy impact strength	notched	ISO 179/1eA		4	7
	Rockwell Hardness	R Scale	ISO 2039-2	—		
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	0.6		
Temperature of deflection under load	1.8MPa 0.45MPa	ISO 75-1,-2	°C	110 195		
ELECTRICAL	Volume resistivity	IEC 62631-3-1	Ω·m	10 ¹³	10 ¹¹	
	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	1.43		
	Water absorption	23°C,50%RH	ISO 62	%	1.9	
	Mold shrinkage	flow	UNITIKA Method 3mmt	%	0.7	
		transverse			0.8	
	MVR	275°C,5kg	ISO 1133	cm ³ /10min		
	Flammability	0.85mmt	UL94 File No.E47924	—	V-2	
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 .

