

# M1030DH

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	65	
	Tensile stress at break					
	Tensile modulus		%	4300	2600	
	Tensile strain at yield					
	Tensile strain at break	MPa	155	70		
	Flexural strength					
	Flexural modulus	ISO 178	MPa	4500	2500	
	Charpy impact strength	unnotched	ISO 179/1eU	kJ/m <sup>2</sup>	57	70
	Charpy impact strength	notched	ISO 179/1eA		4	7
	Rockwell Hardness	R Scale	ISO 2039-2	—	114	
THERMAL	Thermal conductive	ISO 18755	W/(m·K)			
	Planar direction					
	Thickness direction					
Coefficient of linear thermal expansion	flow transverse	ISO 11359-2	10 <sup>-4</sup> /°C	0.5		
Temperature of deflection under load	1.8MPa 0.45MPa	ISO 75-1,-2	°C	140 190		
ELECTRICAL	Volume resistivity	IEC 62631-3-1	Ω·m	10 <sup>13</sup>		
	Electric strength	t:1mm	IEC 60243-1	kV/mm	42	
	Relative permittivity	10 <sup>6</sup> Hz	IEC 62631-2-1	—	3.7	
	Dissipation factor	10 <sup>6</sup> Hz	IEC 62631-2-1	—	0.02	
	Comparative tracking Index		IEC 60112	—	475	
OTHERS	Density	ISO 1183	g/cm <sup>3</sup>	1.15		
	Water absorption	23°C,50%RH	ISO 62	%	2.8	
	Mold shrinkage	flow	UNITIKA Method 3mmt	%	1.1	
		transverse			1.2	
	MVR	275°C,5kg	ISO 1133	cm <sup>3</sup> /10min	55	
	Flammability	0.75mmt	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 .