

# Nylon6



## A1030M

Type : Molybdenum disulfide-added

Identification mark : PA6

Property	Test conditions	Standard	Unit	DAM	Conditioned (50%RH)	
<b>MECHANICAL</b>	Tensile stress at yield	ISO 527-1,-2	MPa	85	55	
	Tensile stress at break					
	Tensile modulus		%	2900	1350	
	Tensile strain at yield					
	Tensile strain at break		MPa	120	65	
	Flexural strength					
	Flexural modulus	ISO 178	MPa	2800	1300	
	Charpy impact strength					unnotched
	Charpy impact strength	notched	ISO 179/1eA			
	Rockwell Hardness	R Scale	ISO 2039-2	—		
<b>THERMAL</b>	Thermal conductive	Planar direction	ISO 18755	W/(m·K)		
		Thickness direction				
	Coefficient of linear thermal expansion	flow transverse	ISO 11359-2	10 <sup>-4</sup> /°C	0.8	
Temperature of deflection under load	1.8MPa	ISO 75-1,-2	°C	70		
	0.45MPa			175		
<b>ELECTRICAL</b>	Volume resistivity	IEC 62631-3-1	Ω·m	10 <sup>13</sup>	10 <sup>11</sup>	
	Electric strength	t:1mm	IEC 60243-1	kV/mm		
	Relative permittivity	10 <sup>6</sup> Hz	IEC 62631-2-1	—		
	Dissipation factor	10 <sup>6</sup> Hz	IEC 62631-2-1	—		
	Comparative tracking Index		IEC 60112	—		
<b>OTHERS</b>	Density	ISO 1183	g/cm <sup>3</sup>	1.16		
	Water absorption	23°C,50%RH	ISO 62	%	2.8	
	Mold shrinkage	flow	UNITIKA Method 3mmt	%	0.8	
		transverse			0.8	
	MVR	275°C,5kg	ISO 1133	cm <sup>3</sup> /10min		
	Flammability	mmt	UL94 File No.E47924	—		
<b>Mold conditions</b>	Cylinder Temperature		°C	230-260		
	Mold temperature		°C	50-100		

The data listed here are typical of average lots and not guaranteed values .

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