

# Nylon6

## A1030SR

Type : High toughness

Identification mark : PA6



Property	Test conditions	Standard	Unit	DAM	Conditioned (50%RH)	
<b>MECHANICAL</b>	Tensile stress at yield	ISO 527-1,-2	MPa	80	40	
	Tensile stress at break					
	Tensile modulus		%	2600	940	
	Tensile strain at yield					
	Tensile strain at break		MPa	100	35	
	Flexural strength					
	Flexural modulus	ISO 178	MPa	2500	900	
	Charpy impact strength	unnotched	ISO 179/1eU	kJ/m <sup>2</sup>	NB	NB
	Charpy impact strength	notched	ISO 179/1eA		4	41
	Rockwell Hardness	R Scale	ISO 2039-2	—	112	90
<b>THERMAL</b>	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	1.0		
Temperature of deflection under load	1.8MPa 0.45MPa	ISO 75-1,-2	°C	60 165		
<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	37	33
	Relative permittivity	10 <sup>6</sup> Hz	IEC 62631-2-1	—	3.4	3.7
	Dissipation factor	10 <sup>6</sup> Hz	IEC 62631-2-1	—	0.02	0.08
	Comparative tracking Index		IEC 60112	—	600<	
<b>OTHERS</b>	Density	ISO 1183	g/cm <sup>3</sup>	1.13		
	Water absorption	23°C,50%RH	ISO 62	%	2.8	
	Mold shrinkage	flow transverse	UNITIKA Method 3mmt	%	1.5 1.6	
	MVR	275°C,5kg	ISO 1133	cm <sup>3</sup> /10min	225	
	Flammability	0.75mmt	UL94 File No.E47924	—	V-2	
	<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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