

## A1025SR

Type : High flowability

Identification mark : PA6

Property	Test conditions	Standard	Unit	DAM	Conditioned (50%RH)	
MECHANICAL	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
	Charpy impact strength	notched	ISO 179/1eA			
	Rockwell Hardness	R Scale		ISO 2039-2	—	112
THERMAL	Thermal conductive	ISO 18755	W/(m·K)			
						Planar direction
		Thickness direction				
	Coefficient of linear thermal expansion	ISO 11359-2	10 <sup>-4</sup> /°C	1.0		
						flow
		transverse				
	Temperature of deflection under load	ISO 75-1,-2	°C	60	165	
						1.8MPa
		0.45MPa				
ELECTRICAL	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<	
OTHERS	Density	ISO 1183	g/cm <sup>3</sup>	1.13		
	Water absorption	23°C,50%RH	ISO 62	%	2.8	
	Mold shrinkage	flow	UNITIKA Method 3mmt	%	1.5	
		transverse				
	MVR	275°C,5kg	ISO 1133	cm <sup>3</sup> /10min	250	
	Flammability		UL94 File No.E47924	—		
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 .