

A1015LP-20

Type : Powder

Identification mark : PA6

Property	Test conditions	Standard	Unit	DAM	Conditioned (50%RH)	
MECHANICAL	Tensile stress at yield	ISO 527-1,-2	MPa	75	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 ²	3	7
	Charpy impact strength	notched	ISO 179/1eA			
	Rockwell Hardness	R Scale	ISO 2039-2	—	112	88
THERMAL	Thermal conductive	Planar direction	W/(m·K)			
		Thickness direction				
	Coefficient of linear thermal expansion	flow transverse	ISO 11359-2	10 ⁻⁴ /°C	1.0	
Temperature of deflection under load	1.8MPa	ISO 75-1,-2	°C	60		
	0.45MPa			155		
ELECTRICAL	Volume resistivity	IEC 62631-3-1	Ω·m	10 ¹³	10 ¹¹	
	Electric strength	t:1mm	IEC 60243-1	kV/mm	37	33
	Relative permittivity	10 ⁶ Hz	IEC 62631-2-1	—	3.4	3.7
	Dissipation factor	10 ⁶ Hz	IEC 62631-2-1	—	0.02	0.08
	Comparative tracking Index		IEC 60112	—	600<	
OTHERS	Density	ISO 1183	g/cm ³	1.13		
	Water absorption	23°C,50%RH	ISO 62	%	2.8	
	Mold shrinkage	flow	UNITIKA Method 3mmt	%	1.5	
		transverse			1.6	
	MVR	275°C,5kg	ISO 1133	cm ³ /10min	300<	
	Flammability	mmt	UL94 File No.E47924	—		
Mold conditions	Cylinder Temperature		°C			
	Mold temperature		°C			

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