

Type : General injection molding

Identification mark : PA66

Property	Test conditions	Standard	Unit	DAM	Conditioned (50%RH)	
MECHANICAL	Tensile stress at yield	ISO 527-1,-2	MPa	85	60	
	Tensile stress at break					
	Tensile modulus		MPa	3000	1000	
	Tensile strain at yield		%	4	25	
	Tensile strain at break					30
	Flexural strength	ISO 178	MPa	115	50	
	Flexural modulus		MPa	3000	1100	
	Charpy impact strength	unnotched	ISO 179/1eU	kJ/m ²	NB	NB
	Charpy impact strength	notched	ISO 179/1eA		5	15
	Rockwell Hardness	R Scale	ISO 2039-2	—	120	108
THERMAL	Thermal conductive	Planar direction Thickness direction	ISO 18755	W/(m·K)		
	Coefficient of linear thermal expansion	flow transverse	ISO 11359-2	10 ⁻⁴ /°C	0.9	
	Temperature of deflection under load	1.8MPa 0.45MPa	ISO 75-1,-2	°C	70 195	
ELECTRICAL	Volume resistivity		IEC 62631-3-1	Ω·m	10 ¹²	
	Electric strength	t:1mm	IEC 60243-1	kV/mm	32	
	Relative permittivity	10 ⁶ Hz	IEC 62631-2-1	—	3.4	
	Dissipation factor	10 ⁶ Hz	IEC 62631-2-1	—	0.04	
	Comparative tracking Index		IEC 60112	—	600	
OTHERS	Density		ISO 1183	g/cm ³	1.14	
	Water absorption	23°C,50%RH	ISO 62	%	2.3	
	Mold shrinkage	flow transverse	UNITIKA Method 3mmt	%	1.8 2.0	
	MVR	275°C,5kg	ISO 1133	cm ³ /10min	105	
	Flammability	0.81mmt	UL94 File No.E47924	—	V-2	
Mold conditions	Cylinder Temperature			°C	270-290	
	Mold temperature			°C	60-110	

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