

ET2025

Type : Ultra-high impact strength

Identification mark : PA66-I

Property	Test conditions	Standard	Unit	DAM	Conditioned (50%RH)	
MECHANICAL	Tensile stress at yield	ISO 527-1,-2	MPa	45	40	
	Tensile stress at break					
	Tensile modulus		MPa	1800	800	
	Tensile strain at yield	ISO 527-1,-2	%	5	35	
	Tensile strain at break					120
	Flexural strength	ISO 178	MPa	60	30	
	Flexural modulus		MPa	1700	800	
	Charpy impact strength	unnotched	ISO 179/1eU	kJ/m ²	NB	NB
	Charpy impact strength	notched	ISO 179/1eA		80	90
	Rockwell Hardness	R Scale	ISO 2039-2	—		
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	1.0	
	Temperature of deflection under load	1.8MPa 0.45MPa	ISO 75-1,-2	°C	65 160	
ELECTRICAL	Volume resistivity		IEC 62631-3-1	Ω·m	10 ¹³	
	Electric strength	t:1mm	IEC 60243-1	kV/mm	31	
	Relative permittivity	10 ⁶ Hz	IEC 62631-2-1	—		
	Dissipation factor	10 ⁶ Hz	IEC 62631-2-1	—		
	Comparative tracking Index		IEC 60112	—		
OTHERS	Density		ISO 1183	g/cm ³	1.07	
	Water absorption	23°C,50%RH	ISO 62	%	1.7	
	Mold shrinkage	flow transverse	UNITIKA Method 3mmt	%	2.2 2.4	
	MVR	275°C,5kg	ISO 1133	cm ³ /10min	5	
	Flammability	mmt	UL94 File No.E47924	—		
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 .