

EX-6240

Type : Ultra-high impact strength, low-temperature resistance

Identification mark : PA6-I

Property	Test conditions	Standard	Unit	DAM	Conditioned (50%RH)	
MECHANICAL	Tensile stress at yield	ISO 527-1,-2	MPa	25	20	
	Tensile stress at break					
	Tensile modulus		%	890	370	
	Tensile strain at yield			7	45	
	Tensile strain at break		200<	200<		
	Flexural strength	ISO 178	MPa	35	15	
	Flexural modulus		MPa	880	320	
	Charpy impact strength	unnotched	ISO 179/1eU	kJ/m ²	NB	NB
	Charpy impact strength	notched	ISO 179/1eA		NB	NB
	Rockwell Hardness	R Scale	ISO 2039-2	—	85	72
THERMAL	Thermal conductive	ISO 18755	W/(m·K)			
	Planar direction					
	Thickness direction					
Coefficient of linear thermal expansion	flow transverse	ISO 11359-2	10 ⁻⁴ /°C			
Temperature of deflection under load	1.8MPa	ISO 75-1,-2	°C	50		
	0.45MPa			65		
ELECTRICAL	Volume resistivity	IEC 62631-3-1	Ω·m	10 ¹³	10 ¹²	
	Electric strength	t:1mm	IEC 60243-1	kV/mm		
	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	1.01		
	Water absorption	23°C,50%RH	ISO 62	%	1.7	
	Mold shrinkage	flow	UNITIKA Method 3mmt	%	1.5	
		transverse			1.7	
	MVR	275°C,5kg	ISO 1133	cm ³ /10min	25	
	Flammability	mmt	UL94 File No.E47924	—		
Mold conditions	Cylinder Temperature		°C	250-270		
	Mold temperature		°C	50-100		

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