

# FR-RUNG30

Type : Good appearance,high flowability,flame retardant (UL94 V-0,approved Halogen free)

Identification mark : PA6-GF30FR(40)

Property	Test conditions	Standard	Unit	DAM	Conditioned (50%RH)	
MECHANICAL	Tensile stress at yield	ISO 527-1,-2	MPa	135	105	
	Tensile stress at break					
	Tensile modulus		MPa			11000
	Tensile strain at yield		%	3	3	
	Tensile strain at break					
	Flexural strength	ISO 178	MPa	220	180	
	Flexural modulus		MPa	10500	7900	
	Charpy impact strength	unnotched	ISO 179/1eU	kJ/m <sup>2</sup>	9	10
	Charpy impact strength	notched	ISO 179/1eA			
	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 <sup>-4</sup> /°C		
	Temperature of deflection under load	1.8MPa 0.45MPa	ISO 75-1,-2	°C	205 220	
ELECTRICAL	Volume resistivity		IEC 62631-3-1	Ω·m		
	Electric strength	t:1mm	IEC 60243-1	kV/mm		
	Relative permittivity	10 <sup>6</sup> Hz	IEC 62631-2-1	—		
	Dissipation factor	10 <sup>6</sup> Hz	IEC 62631-2-1	—		
	Comparative tracking Index		IEC 60112	—		
OTHERS	Density		ISO 1183	g/cm <sup>3</sup>	1.44	
	Water absorption	23°C,50%RH	ISO 62	%	1.3	
	Mold shrinkage	flow transverse	UNITIKA Method 3mmt	%	0.2 0.6	
	MVR	275°C,5kg	ISO 1133	cm <sup>3</sup> /10min	90	
	Flammability	0.8mmt	UL94 File No.E47924	—	V-0	
Mold conditions	Cylinder Temperature			°C	240-270	
	Mold temperature			°C	50-120	

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