Nylon6

A3130

Type : 35% Mineral filler-reinforced

Identification mark ：PA6-MD35

	Property	Test conditions	Standard	Unit	DAM	Conditioned (50%RH)
MECHANICAL	Tensile stress at yield Tensile stress at break		ISO 527-1,-2	MPa	 75	 60
	Tensile modulus			MPa	6900	3800
	Tensile strain at yield Tensile strain at break			%	 3	 4
	Flexural strength		ISO 178	MPa	135	80
	Flexural modulus			MPa	6800	3700
	Charpy impact strength	unnotched	ISO 179/1eU	kJ/m^2	41	48
	Charpy impact strength	notched	ISO 179/1eA		3	6
	Rockwell Hardness	R Scale	ISO 2039-2	—	119	103
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	0.5	
	Temperature of deflection under load	1.8MPa 0.45MPa	ISO 75-1,-2	°C	130 200	
ELECTRICAL	Volume resistivity		IEC 62631-3-1	Ω·m	10^{13}	10^{11}
	Electric strength	t:1mm	IEC 60243-1	kV/mm	42	
	Relative permittivity	10^6Hz	IEC 62631-2-1	—	3.6	
	Dissipation factor	10^6Hz	IEC 62631-2-1	—	0.02	
	Comparative tracking Index		IEC 60112	—		
OTHERS	Density		ISO 1183	g/cm^3	1.40	
	Water absorption	23°C,50%RH	ISO 62	%	1.8	
	Mold shrinkage	flow transverse	UNITIKA Method 3mmt	%	0.4 0.8	
	MVR	275°C,5kg	ISO 1133	cm^3/10min		
	Flammability	0.81mmt	UL94 File No.E47924	—	HB	
Mold conditions	Cylinder Temperature			°C	250-270	
	Mold temperature			°C	80-120	

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